AV-32750
AV-32770

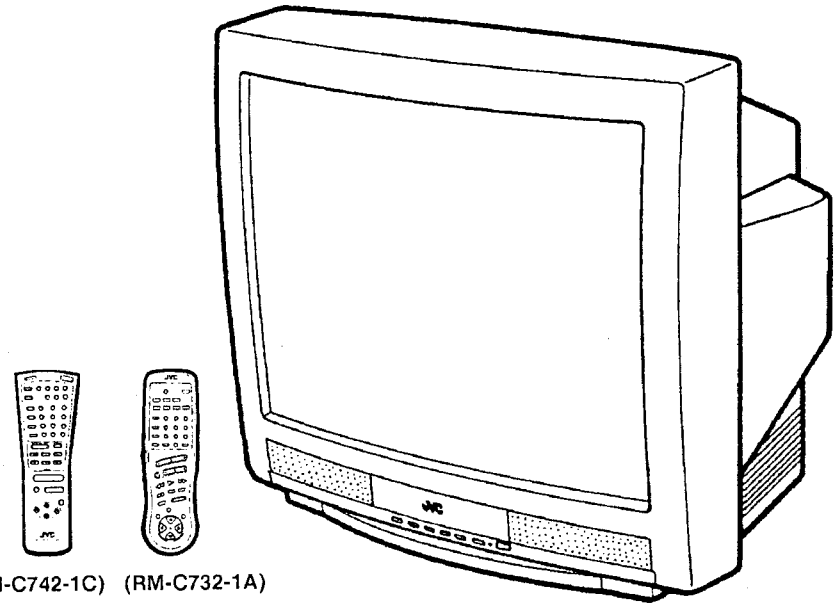
JVC

SERVICE MANUAL

COLOR TELEVISION

AV-32750(US&CA)
AV-32770(US)

BASIC CHASSIS
GKII



(RM-C742-1C) (RM-C732-1A)

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No. 51129
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SPECIFICATIONS

Item	Content
Dimensions (W×H×D)	30-1/4" × 26-1/8" × 21-5/8" / 76.8cm × 66.4cm × 54.8cm
Mass	114.7lbs / 52.1kg
TV System and Color system	
TV RF System	CCIR (M)
Color System	NTSC
Sound System	BTSC (Multi Channel Sound)
TV Receiving Channels and Frequency	
VL Band	(02 ~ 06) 54MHz ~ 88MHz
VH Band	(07 ~ 13) 174MHz ~ 216MHz
UHF Band	(14 ~ 69) 470MHz ~ 806MHz
CATV Receiving Channels and Frequency (Quartz Synthesizer system)	
Low Band	(02 ~ 06, A-8) by (02 ~ 06&01)
High Band	(07 ~ 13) by (07 ~ 13)
Mid Band	(A ~ 1) by (14 ~ 22)
Super Band	(J ~ W) by (23 ~ 36)
Hyper Band	(W + 1 ~ W + 28) by (37 ~ 64)
ULTRA Band	(W + 29 ~ W + 84) by (65 ~ 125)
Sub Mid Band	(A8, A4 ~ A1) by (01, 96 ~ 99)
	(54MHz~804MHz)
TV/CATV Total Channel	180 Channels
Intermediate Frequency	
Video IF Carrier	45.75MHz
Sound IF Carrier	41.25MHz (4.5MHz)
Color Sub Carrier	3.58MHz
Antenna terminal	75Ω (VHF/UHF) Terminal, F-Type Connector
Power Input	120V AC, 60Hz
Power Consumption	135W(US)
Input Current	1.8A(CA)
Picture Tube	32"(78cm) measured diagonally, Full Square
High Voltage	31kV ±1.3kV (at zero beam current)
Speaker	2" × 4-3/4" / 5 × 12cm Oblong Type × 2
Audio Power Output	3W + 3W
Input (1, 2)	Video : 1 Vp-p 75Ω (RCA pin jack) Audio : 500 mV rms (-4dBs), High Impedance (RCA pin jack)
S-VIDEO IN	Y : 1 Vp-p positive (negative sync provided,when terminated with 75Ω) C : 0.286 Vp-p (burst signal, when terminated with 75Ω)
Variable / Fix Audio Output	Variable: More than 0~1550mV rms (+ 6dBs) Low Impedance (400Hz when modulated 100%) (RCA pin jack) Fix : 500 mV rms (-4dBs) Low Impedance (400Hz when modulated 100%) (RCA pin jack)
AV Compulink Input	RECEIVER / AMP : 3.5mm mini jack VCR ONLY : 3.5mm mini jack
Remote Control Unit	RM-C742-1C (AA/R6/UM-3 dry battery × 2) : [AV-32750(US&CA)] RM-C732-1A (AAA/R03/UM-4 dry battery × 2) : [AV-32770(US)]

Design & specification subject to change without notice.

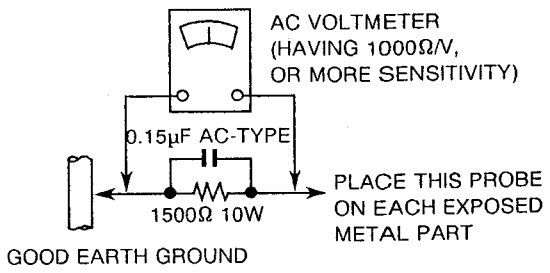
SAFETY PRECAUTIONS

1. The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection,no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (⚠) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
4. **Use isolation transformer when hot chassis.**
   The chassis and any sub-chassis contrained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.
5. **Don't short between the LIVE side ground and ISOLATED(NEUTRAL) side ground or EARTH side ground when repairing.**
   Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND, the ISOLATED(NEUTRAL) : (⏚) side GND and EARTH : (⏚) side GND. Don't short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND and never measure with a measuring apparatus (oscilloscope etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND or EARTH side GND at the same time.
   If above note will not be kept, a fuse or any parts will be broken.
6. If any repair has been made to the chassis, it is recommended that the B_1 setting should be checked or adjusted (See ADJUSTMENT OF B_1 POWER SUPPLY).
7. The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
8. Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10kΩ 2W resistor to the anode button.
9. When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.
10. **Isolation Check**
    (Safety for Electrical Shock Hazard)
    After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs,metal cabinet, screwheads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

(1) **Dielectric Strength Test**
The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.
(. . . . Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.)
This method of test requires a test equipment not generally found in the service trade.

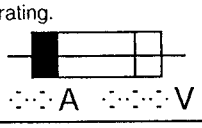
(2) **Leakage Current Check**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

• **Alternate Check Method**
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 ohms per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a 0.15μF AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.35V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).



11. **High voltage hold down circuit check.**
    After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly.
    See item **"How to check the high voltage hold down circuit"**.

This mark shows a fast operating fuse, the letters indicated below show the rating.



FEATURES

- New chassis design enables use of a main board with simplified circuitry.
- Comb filter improved picture quality.
- Provided with miniature tuner (TV / CATV)
- Full-square CRT (cathode ray tube) reproduces fine textured picture in every detail.
- PLL synthesizer system TV / CATV totaling 180 channels.
- AV COMPU LINK terminals allow simultaneous mode switching of the TV, connected receiver (or amplifier) and/or VCR.
- Closed-caption broadcasts can be viewed.
- With AUDIO. VIDEO INPUT terminal.
- S-VIDEO input terminal for taking best advantage of Super VHS.
- Variable audio output terminal.
- Built-in PIP system.
- An auto demonstration function demonstrates the features of this model.
- I²C bus control utilizes single chip ICs.

DIFFERENCE LIST OF MAIN PARTS

⚠	Part name	AV-32750(US)	AV-32750(CA)	AV-32770(US)
	MAIN PWB ASSY	SGK-1017A-M2	←	SGK-1018A-M2
	PIP PWB ASSY	SGK0P002A-M2	←	SGK0P001A-M2
⚠	RATING LABEL	CM23034-001-A	CM22999-001-A	CM23034-001-A
	PACKING CASE	CP11499-003-A	←	CP11548-003
	REMOCON UNIT	RM-C742-1C	←	RM-C732-1A
⚠	INST BOOK (ENGLISH)	CQ40198-001-A	←	CQ40282-001-A
⚠	INST BOOK (FRENCH)	×	CQ40199-001-A	×
	REGI.CARD	BT-51006-1Q	×	BT-51006-1Q
	SVC CENTER LIST	×	BT-20071B-Q	×
	WARRANTY CARD	×	BT-52002-1Q	×

OPERATING INSTRUCTIONS

■ **The operating instructions are the same as for AV-35750(US&CA), AV-35770(US)(No.51130). Therefore, please refer to the AV-35750(US&CA), AV-35770(US)(No.51130) SERVISE MANUAL for detailed instructions.**

SPECIFIC SERVICE INSTRUCTIONS

DISASSEMBLY PROCEDURE

REMOVING THE REAR COVER

1. Unplug the power supply cord.
2. Remove the 14 screws marked Ⓐ as shown in Fig. 2.

* When reinstalling the rear cover, carefully push it inward after inserting the chassis into the rear cover groove.

REMOVING THE CHASSIS

- After removing the rear cover.

1. Slightly raise the both sides of the chassis by hand and remove the two claws under the both sides of the chassis from the front cabinet.
2. Draw the chassis backward along the rail in the arrow direction marked Ⓑ as shown in the Fig. 2.
   (If necessary, take off the wire clamp, connectors etc.)

- When conducting a check with power supplied, be sure to confirm that the CRT earth wire is connected to the CRT SOCKET PWB and the MAIN PWB.

REMOVING THE FRONT CONTROL PW BOARD

- After removing the rear cover and chassis.

1. Remove the 2 screws marked Ⓒ as shown in Fig. 2.
2. Remove the FRONT CONTROL PW BOARD toward you.

REMOVING THE TERMINAL BOARD

- After removing the rear cover.

1. Remove the 4 screws marked Ⓓ as shown in Fig. 2.
2. After removing the claw marked Ⓔ from the AV JACK PWB in the direction of arrow mark as shown in Fig.1, remove the 2 claws marked Ⓕ in the direction of arrow mark, then take off the TERMINAL BOARD in the direction of arrow marked Ⓖ.

REMOVING THE ANT SPLITTER

1. Remove a screw marked Ⓗ as shown Fig.1.

CHECKING THE MAIN PW BOARD

1. To check the back side of the MAIN PW Board.
   1) Pull out the chassis. (Refer to REMOVING THE CHASSIS).
   2) Erect the chassis vertically so that you can easily check the back side of the MAIN PW Board.

[CAUTION]

- When erecting the chassis, be careful so that there will be no contacting with other PWB.
- Before turning on power, make sure that the wire connector, CRT earth wire and other connectors properly connected.

WIRE CLAMPING AND CABLE TYING

1. Be sure to clamp the wire.
2. Never remove the cable tie used for tying the wires together. Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

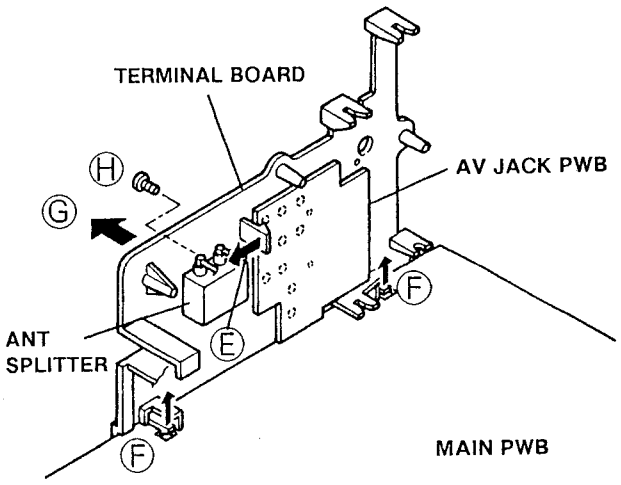


Fig.1

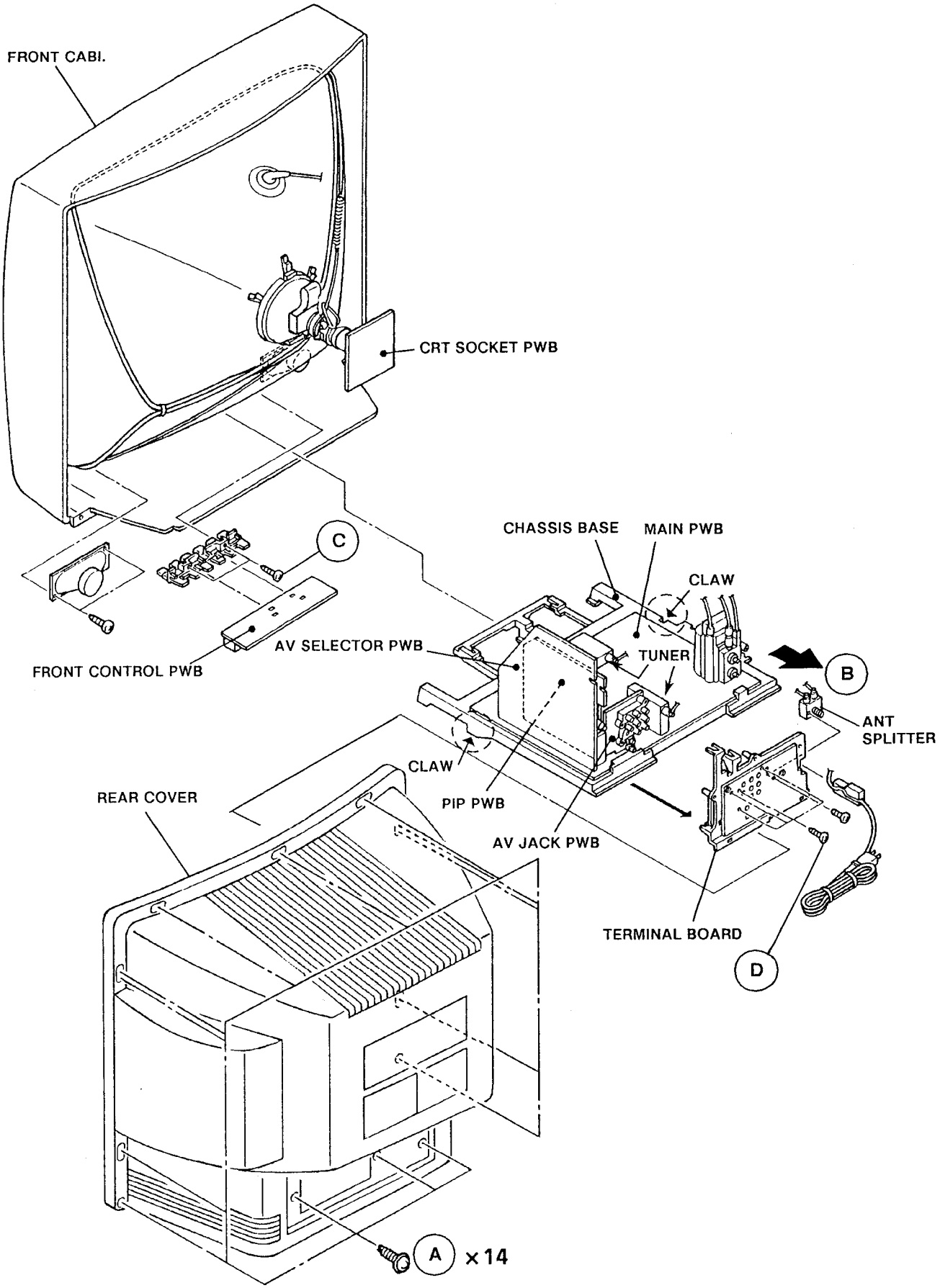

FRONT CABI.
CRT SOCKET PWB
C
CHASSIS BASE
MAIN PWB
CLAW
AV SELECTOR PWB
TUNER
B
FRONT CONTROL PWB
ANT
SPLITTER
CLAW
REAR COVER
PIP PWB
AV JACK PWB
TERMINAL BOARD
D
A
x14

Fig. 2

REMOVING THE CRT.

* Replacement of the CRT should be performed by two or more persons.

● After removing the rear cover, chassis etc..,

1. Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth. (shown in Fig. 3)
2. While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig. 4.
3. Remove four nuts marked by arrows with a box type screw driver as shown in Fig. 4.

● Since the cabinet will drop when nuts have been removed, be sure to support the cabinet with hands.

4. After four nuts have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig.5.

● The CRT should be assembled according to the opposite sequence of its dismounting steps.

* The CRT change table should preferably be smaller than the CRT surface, and its height be about 35cm.

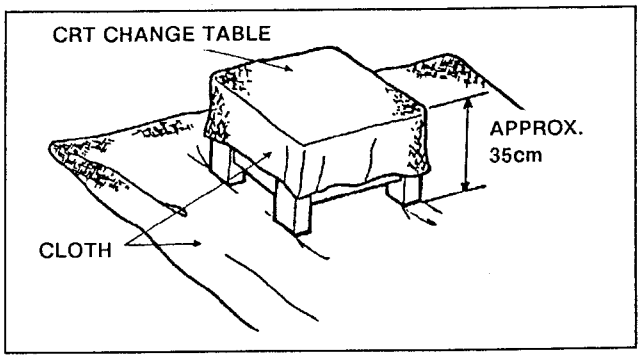


Fig. 3

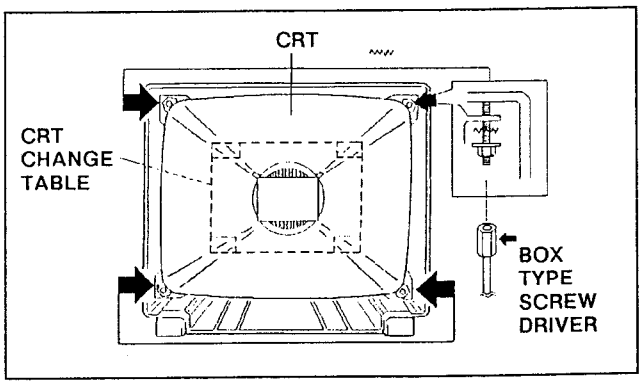


Fig. 4

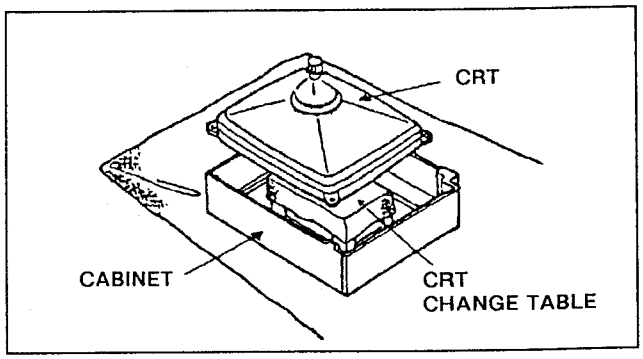


Fig. 5

MEMORY IC REPLACEMENT

1. Memory IC

This model uses a memory (EEP-ROM) IC.

The memory IC stores data for proper operation of the video and deflection circuits.

When replacing, be sure to use an IC containing this (initial value) data.

2. Memory IC replacement procedure

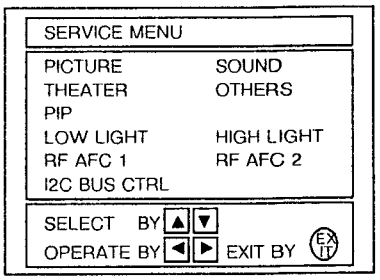
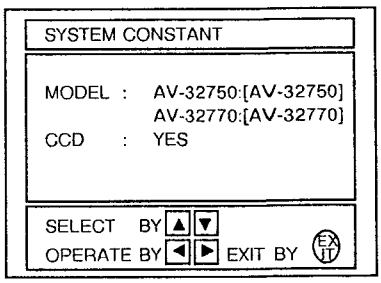
Procedure	Screen display
(1) **Power off** Switch off the power and disconnect the power cord from the outlet.	
(2) **Replace the memory IC.** Initial value must be entered into the new IC.	
(3) **Power on** Connect the power cord to the outlet and switch on the power.	
(4) **System constant check and setting** 1) Simultaneously press the DISPLAY key and VIDEO STATUS key of the remote control unit. 2) The SERVICE MENU screen of Fig. 1 is displayed. 3) While the SERVICE MENU is displayed, again simultaneously press the DISPLAY and VIDEO STATUS keys to display the Fig. 2 SYSTEM CONSTANT screen. 4) Refer to the SYSTEM CONSTANT table and check the setting items. Where these differ, select the setting item with the MENU UP / DOWN key and adjust the setting with the MENU LEFT / RIGHT keys.(The letters of the selected item are displayed in yellow.) 5) After adjusting, release the MENU LEFT / RIGHT key to store the setting value. 6) Press the EXIT key twice to return the normal screen.	 Fig. 1  Fig. 2
(5) **Receive channel setting** Refer to the OPERATING INSTRUCTIONS(USER'S GUIDE) and set the receive channels (Channels Preset) as described.	
(6) **User settings** Check the user setting items According to Table 2. Where these do not agree, refer to the OPERATING INSTRUCTIONS(USER'S GUIDE) and set the items as described.	
(7) **SERVICE MENU setting** Verify what to set in the SERVICE MENU, and set whatever is necessary. (Fig. 1) refer to the SERVICE ADJUSTMENT for setting.	

TABLE 1 (System Constant setting)

Setting item	Setting constant	Setting value
MODEL	AV-27730 → AV-27750 → AV-27770 AV-32720 → AV-32730 → AV-32750 AV-32770 → AV-35750 → AV-35770	AV-32750 : [AV-32750] AV-32770 : [AV-32770]
CCD	YES → NO	YES

TABLE 2 (User setting)

Setting Item	Setting Value	Setting Item	Setting Value
1. Use remote controller keys			
POWER	OFF	DISPLAY	OFF
CHANNEL	CH - 02	VIDEO STATUS	STANDARD
VOLUME	Proper sound volume	SLEEP TIMER	00
TV / VIDEO	TV	PIP SOURCE	CH - 04
CLOSED CAPTION	OFF (CC1 / T1) : [AV-32750] OFF (CC1 / T1 / BLACK) : [AV-32770]	PIP POSITION	Lower left
HYPER SURROUND	OFF		
2. Settings from MENU			
TINT	CENTER	TV SPEAKER	ON
COLOR	CENTER	AUDIO OUT	FIX
PICTURE	CENTER	LANGUAGE	ENG
BRIGHT	CENTER	CLOSED CAPTION	CAPTION : CC1 TEXT : T1 BACKGROUND : BLACK : [AV-32770]
DETAIL	CENTER		
NOTCH	OFF		
NOISE MUTE	ON		
SET VIDEO STATUS	CENTER	AUTO TUNER SET UP	OTHERS
BASS	CENTER		
TREBLE	CENTER	CHANNEL SUMMARY	Set optionally Stations 02 — CBS 04 — NBC 07 — ABC
BALANCE	CENTER		
MTS	STEREO		
SET CLOCK	Unnecessary to set		
ON / OFF TIMER	NO		
SET LOCK CODE	Unnecessary to set	TUNER MODE	AIR
		AUTO DEMO	Unnecessary to set

SERVICE ADJUSTMENTS

ADJUSTMENT PREPARATION:

1. **You can make the necessary adjustments for this unit with either the Remote Control Unit or with the adjustment tools and parts as before.**
2. **Adjustment with the Remote Control Unit is made on the basis of the initial setting values; however, the new setting values which set the screen to its optimum condition may differ from the initial settings.**
3. Turn on the power for the set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
4. Make sure that AC power is turned on correctly.
5. Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
6. Never touch any adjustment parts which are not specified in the list for this adjustment - variable resistors, transformers, condensers, etc.
7. Presetting before adjustment.
   Unless otherwise specified in the adjustment instructions, preset the following functions with the Remote Control Unit:

(1) VIDEO STATUS	STANDARD	(3) HYPER SURROUND	OFF
(2) NOTCH	OFF	(4) BASS, TREBLE, BALANCE	CENTER

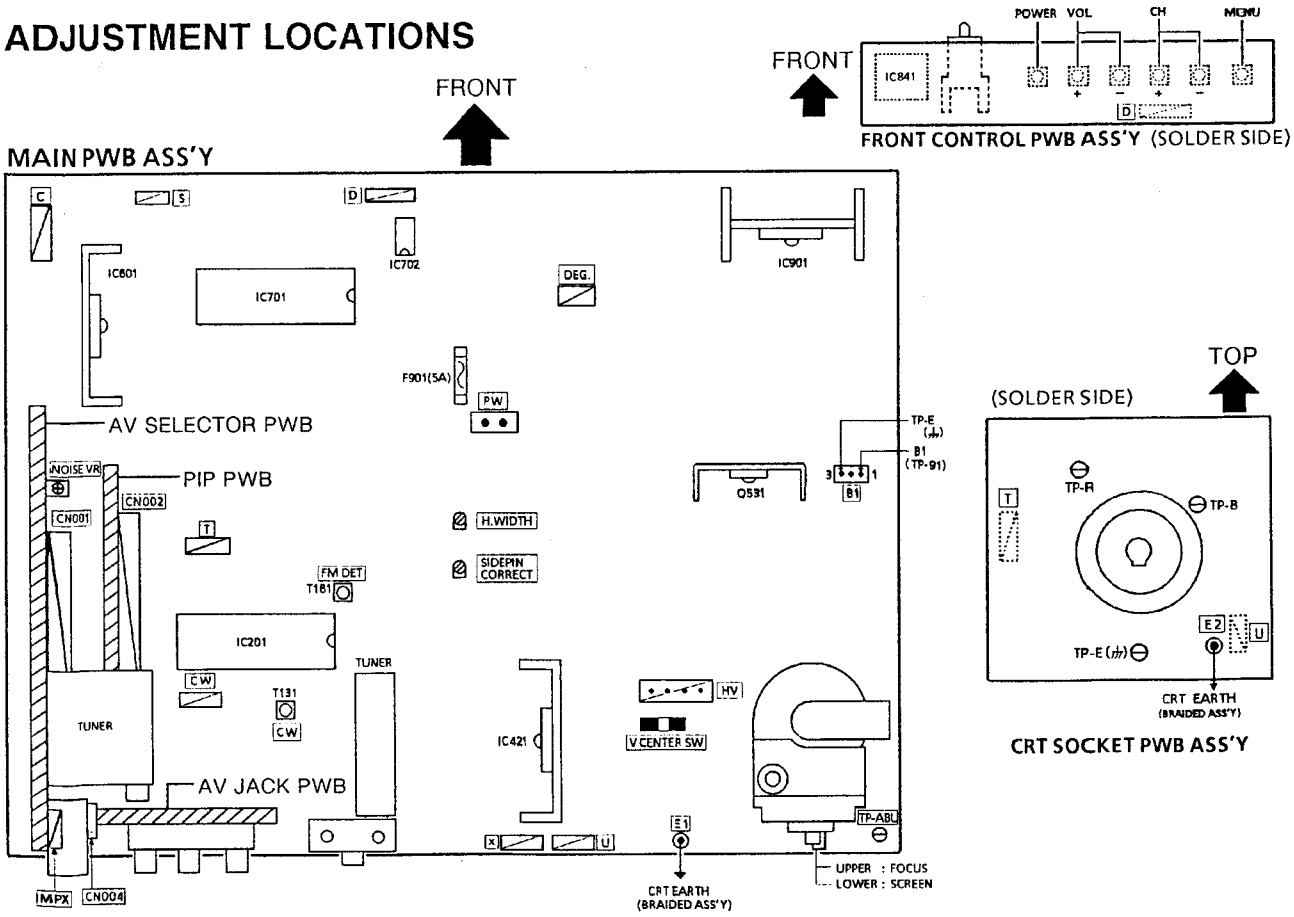
TESTERS & TOOLS

1. DC voltmeter (or digital voltmeter)
2. Oscilloscope
3. Signal generator (Pattern generator) [NTSC]
4. Remote control unit
5. TV audio multiplex signal generator
6. Frequency counter

ADJUSTMENT ITEMS

Adjustment items	Adjustment items	Adjustment items
B1 voltage check	WHITE BALANCE (Low Light)	PIP CIRCUIT (7 ITEMS)
IF VCO	WHITE BALANCE (High Light)	MTS INPUT LEVEL check
RF. AGC	SUB BRIGHT	MTS STEREO VCO
FOCUS	SUB CONTRAST	MTS SAP VCO
V. CENTER, V. SIZE and V.POSITION	SUB COLOR	MTS FILTER check
H. POSITION	SUB TINT	MTS SEPARATION

ADJUSTMENT LOCATIONS



BASIC OPERATION OF SERVICE MENU

1. The REMOTE CONTROL UNIT is used for the SERVICE MENU operation.

2. In general, the ten basic setting (adjustments) items or verifications are performed in the SERVICE MENU.

(1) PICTURE	This sets the setting values (adjustment values) of the VIDEO / CHROMA and DEFLECTION circuits.
(2) SOUND	This sets the setting values (adjustment values) of the AUDIO circuit.
(3) THEATER	This is used when the THEATER MODE is adjusted.
(4) OTHERS	This sets the setting values (adjustment values) of the OTHERS circuit.
(5) PIP	This sets the setting values (adjustment values) of the PICTURE-IN-PICTURE circuit.
(6) LOW LIGHT ...	This sets the setting values (adjustment values) of the WHITE BALANCE circuit.
(7) HIGH LIGHT ...	This sets the setting values (adjustment values) of the WHITE BALANCE circuit.
(8) RF AFC 1	This is used when the IF VCO is adjusted.
(9) RF AFC 2	This is used when the IF VCO is adjusted of the PIP.
(10) I2C BUS CTRL	This is used when ON / OFF of the I2C BUS CTRL is set.

3. Basic Operations of the SERVICE MENU

(1) How to enter the SERVICE MENU.

1) Press the DISPLAY KEY and VIDEO STATUS KEY of the REMOTE CONTROL UNIT at the same time to display the SERVICE MENU screen shown in Fig.1.

(2) SERVICE MENU screen selection

1) Press the UP / DOWN key of the MENU to select any of the following items.(The letters of the selected items are displayed in yellow.)

- PICTURE
- SOUND
- THEATER
- OTHERS
- PIP
- LOW LIGHT
- HIGH LIGHT
- RF AFC 1
- RF AFC 2
- I2C BUS CTRL

2) Select any of PICTURE, SOUND or OTHERS. The screen shown in Fig.2 will be displayed if the LEFT / RIGHT KEY is pressed.

3) If the UP / DOWN KEY is pressed, the PICTURE MODE screen shown in Fig.3 or the SOUND MODE screen shown in Fig.4 or the OTHERS MODE screen shown in Fig.5 is displayed and the PICTURE, SOUND or OTHERS setting can be performed.

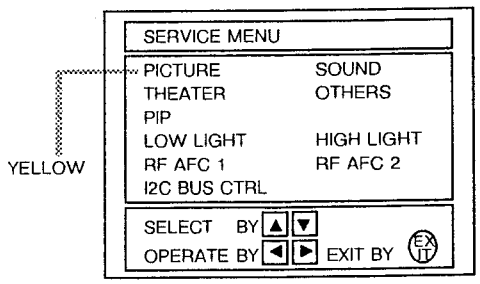


Fig. 1 SERVICE MENU

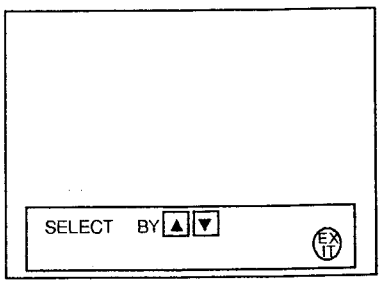


Fig. 2

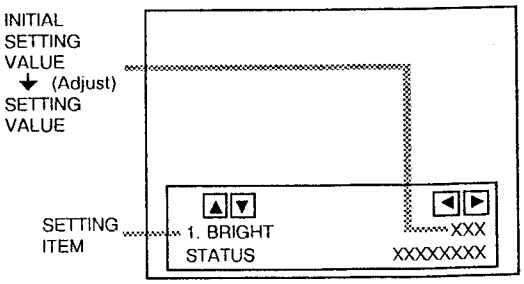


Fig. 3 PICTURE MODE

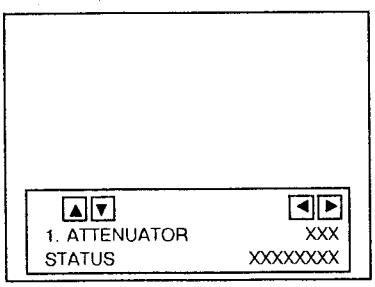


Fig. 4 SOUND MODE

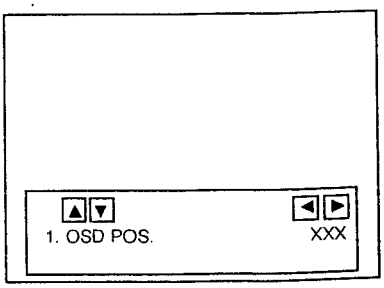


Fig. 5 OTHERS MODE

4) Select the PIP, The screen shown in Fig.6 will be displayed in the LEFT / RIGHT KEY is pressed.

5) If the UP / DOWN KEY is pressed, the PIP MODE screen shown in Fig.7 is displayed and the PIP setting can be performed.

6) If any of the THEATER / LOW LIGHT / HIGH LIGHT / RF AFC 1 / RF AFC 2 / I2C BUS CTRL items are selected and the LEFT / RIGHT KEY is pressed, the screens shown in Fig. 8, 9, 10, 11, 12 and 13 are displayed respectively and the settings or verifications can be performed.

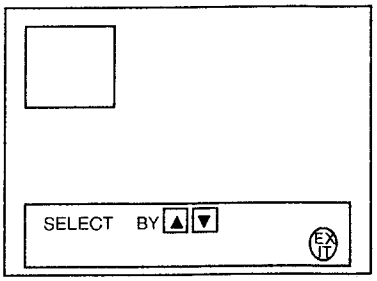


Fig. 6

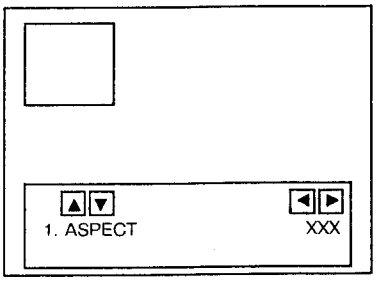


Fig. 7 PIP MODE

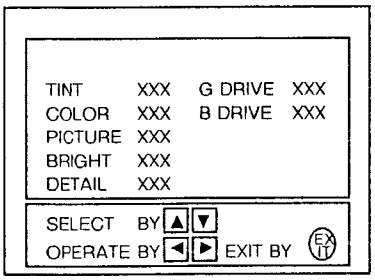


Fig. 8 THEATER MODE

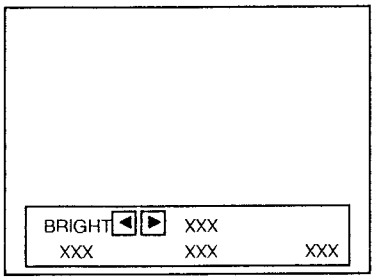


Fig. 9 LOW LIGHT MODE

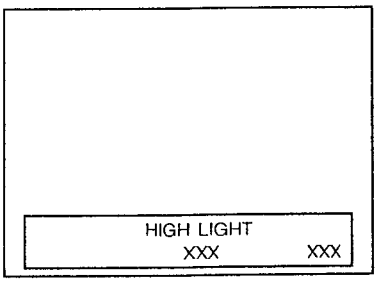


Fig. 10 HIGH LIGHT MODE

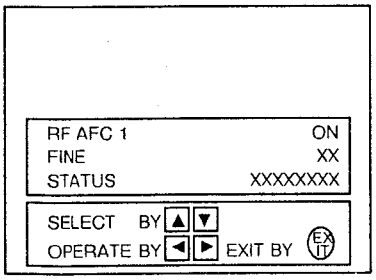


Fig. 11 RF AFC 1 MODE

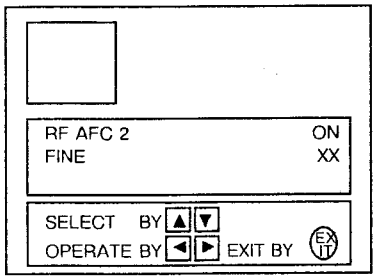


Fig. 12 RF AFC 2 MODE
[Do not adjust]

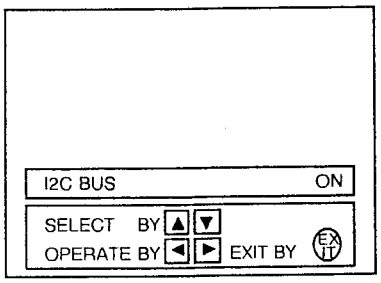


Fig. 13 I2C BUS CTRL MODE
[Fixed ON]

(3) Setting method

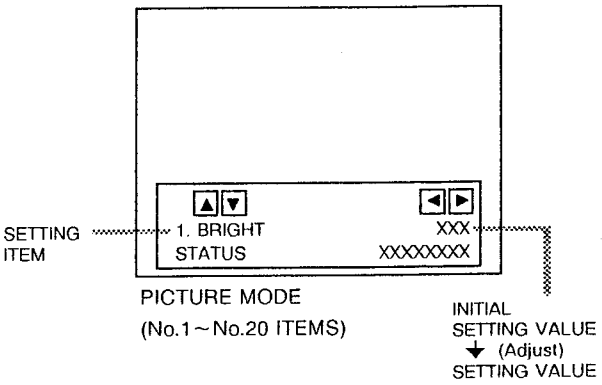
1) UP/DOWN key of the MENU
   Selects the SETTING ITEM
2) LEFT/RIGHT key of the MENU
   Setting (adjust) the SETTING VALUE of the SETTING ITEM. When the key is released the SETTING VALUE will be stored (memorized).
3) EXIT key : Returns to the previous screen.

(4) Releasing SERVICE MENU

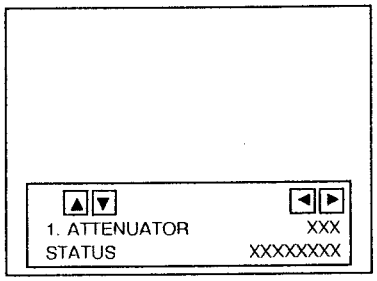
1) After returning to the SERVICE MENU upon completion of the setting (adjustment) work, press the EXIT key again.

★ The settings for LOW LIGHT and HIGH LIGHT are described in the WHITE BALANCE page of ADJUSTMENT.

★ The setting for RF AFC 1 are described in the IF VCO page of ADJUSTMENT.

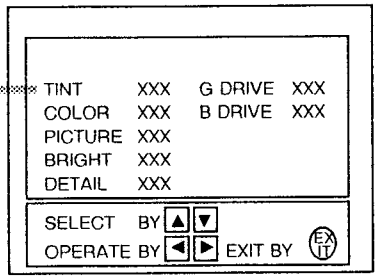


PICTURE MODE
(No.1~No.20 ITEMS)

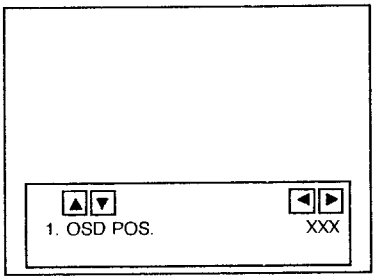


SOUND MODE
(No.1~No.14 ITEMS)

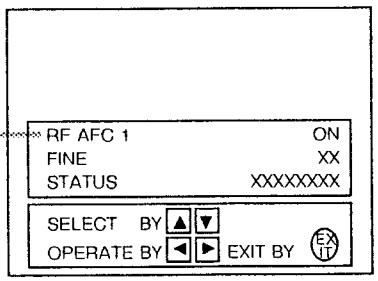
The letters of the selected items are displayed in yellow.



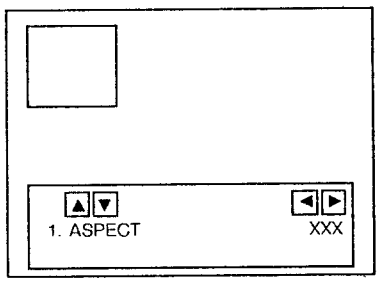
THEATER MODE
(7 ITEMS)



OTHERS MODE
(No.1~No.9 ITEMS) : [AV-32750]
(No.1~No.6 ITEMS) : [AV-32770]



RF AFC 1 MODE
(2 ITEMS)



PIP MODE
(No.1~No.15 ITEMS)

INITIAL SETTING VALUE OF SERVICE MENU

1. Adjustment of the SERVICE MENU is made on the basis of the initial setting values; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.

2. Do not change the Initial Setting Values of the Setting (Adjustment) items not listed in "ADJUSTMENT".

- PICTURE MODE

No.	Setting (Adjustment) item	Variable range	initial setting value	
			AV-32750	AV-32770
1.	BRIGHT	0 ~ 127	64	
2.	PICTURE	0 ~ 127	75	
3.	WPS (WHITE PEAK SUPPRESSOR)	0 / 1	1	
4.	TV DETAIL	0 ~ 63	32	
5.	TV BPF (TV B.P.FILTER)	0 / 1	1	
6.	TINT	0 ~ 127	64	
7.	COLOR	0 ~ 127	52	
8.	EXT BRIGHT	±25	-1	
9.	EXT PICT.	±25	±0	
10.	EXT DETAIL	0 ~ 63	34	
11.	EXT BPF (EXT B.P.FILTER)	0 / 1	1	
12.	EXT TINT	±25	+8	
13.	EXT COLOR	±25	+3	
14.	V SIZE	0 ~ 63	32	
15.	V CENTER	0 ~ 7	0	
16.	H POSITION	0 ~ 31	22	
17.	H AFC	0 / 1	0	
18.	BLANKING	0 / 1	0	
19.	RF AGC	0 ~ 63	35	
20.	PIF VCO	0 ~ 127	64	

- SOUND MODE

No.	Setting (Adjustment) item	Variable range	initial setting value	
			AV-32750	AV-32770
1.	ATTENUATOR	0 ~ 63	50	
2.	BALANCE	0 ~ 63	32	
3.	NOISE DET.	0 / 1	1	
4.	IN LEVEL (INPUT LEVEL)	0 ~ 63	29	
5.	FH MONITOR	0 / 1	0	
6.	STEREO VCO	0 ~ 63	16	
7.	PILOT CAN. (PILOT CANCELER)	0 / 1	0	
8.	FILTER	0 ~ 63	24	
9.	LOW SEP. (LOW SEPARATION)	0 ~ 63	28	
10.	HI SEP. (HI SEPARATION)	0 ~ 63	23	
11.	5FH MON. (5FH MONITOR)	0 / 1	0	
12.	SAP VCO	0 ~ 63	21	
13.	IN GAIN (INPUT GAIN)	0 / 1	0	
14.	FIL.OFFSET	0 ~ 10	7	

- THEATER MODE

Setting (Adjustment) item	Variable range	initial setting value	
		AV-32750	AV-32770
TINT	±20	±00	
COLOR	±20	-2	
PICTURE	±20	-15	
BRIGHT	±20	±00	
DETAIL	±15	-3	
G DRIVE	-80 ~ +50	-25	
B DRIVE	-80 ~ +50	-72	

• OTHERS MODE

NO.	Setting (Adjustment) item	Variable range	initial setting value	
			AV-32750	AV-32770
1.	OSD POS.	0 ~ 7	0	
2.	CCD POS. (CLOSED CAPTION DECODER POS.)	0 ~ 15	5	
3.	SEARCH LN (SEARCH LINE)	0 ~ 15	0	
4.	SEARCH MD (SEARCH MODE)	0 / 1	0	
5.	OSD STABI	0 / 1	0	
6.	LOCK DET	0 / 1	0	
7.	MENU COLOR	-30 ~ 0	-10	
8.	MENU PICT	-30 ~ 0	-12	
9.	MENU BRI	-30 ~ 0	-12	

• PIP MODE

NO.	Setting (Adjustment) item	Variable range	initial setting value	
			AV-32750	AV-32770
1.	ASPECT	0 ~ 31	23	
2.	V POSITION	0 ~ 127	20	
3.	LOWER POS.	0 ~ 127	61	
4.	H POSITION	0 ~ 127	39	
5.	RIGHT POS.	0 ~ 127	77	
6.	V AREA	0 ~ 3	2	
7.	H AREA	0 ~ 3	2	
8.	CLAMP POS.	0 ~ 3	1	
9.	FRAME	0 ~ 3	3	
10.	Y / C DELAY	0 ~ 7	4	
11.	TINT	0 ~ 127	30	
12.	COLOR	0 ~ 127	85	
13.	CONTRAST	0 ~ 127	65	
14.	G GAIN	0 ~ 127	80	
15.	B GAIN	0 ~ 127	90	

• LOW LIGHT MODE

Setting (Adjustment) item	Variable range	initial setting value	
		AV-32750	AV-32770
R CUTOFF	0 ~ 255	20	
G CUTOFF	0 ~ 255	20	
B CUTOFF	0 ~ 255	20	

• HIGH LIGHT MODE

Setting (Adjustment) item	Variable range	initial setting value	
		AV-32750	AV-32770
G DRIVE	0 ~ 255	128	
B DRIVE	0 ~ 255	128	

• RF AFC 1 MODE

Setting (Adjustment) item	Variable range	initial setting value	
		AV-32750	AV-32770
RF AFC 1	ON / OFF	ON	
FINE	-77~ +77	±00	

• RF AFC 2 MODE

Setting (Adjustment) item	Variable range	initial setting value	
		AV-32750	AV-32770
RF AFC 2	ON / OFF	ON	Do not adjust
FINE	-77~ +77	XX	

• I2C BUS CTRL MODE

Setting (Adjustment) item	Variable range	initial setting value	
		AV-32750	AV-32770
I2C BUS	ON / OFF	Fixed ON	

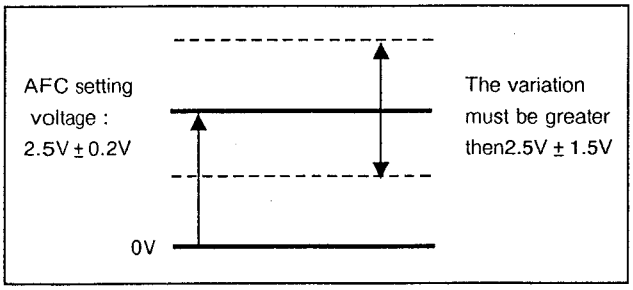
■ ADJUSTMENTS

B1 VOLTAGE CHECK

Item	Measuring instrument	Test point	Adjustment part	Description
B1 voltage check	DC Voltmeter	B1 (B1 Connector 1 pin) (TP-91) TP-E(⏚)(B1 Connector 3 pin)		1. Receive a monoscope pattern signal. 2. Connect the DC voltmeter to B1 connector 1 pin (TP-91) and TP-E (⏚) (B1 connector 3 pin). 3. Confirm that the voltage is DC 136V ± 3V.

ADJUSTMENT OF IF. VCO

Item	Measuring instrument	Test point	Adjustment part	Description
IF VCO adjustment	Oscillo-scope Signal generator	CW Connector 3 pin	CW TRANSF. (T131) [RF AFC 1] MODE	1. Receive the color bar signal. 2. Connect the oscilloscope to pin 3 of the CW connector. 3. Select the [RF AFC 1] MODE of the SERVICE MENU. Set the RF AFC to OFF and FINE to ± 00. 4. Turn T131, verify that the AFC output voltage changes quickly between 2.5V ± 1.5V and then adjust the voltage to 2.5V ± 0.2V. 5. Return the RF AFC to ON. 6. Cancel the service menu and check that no irregularities are displayed on the screen.If there any irregularities, select [RF AFC 1] MODE on the service menu and verify that FINE is 00 when the AFC is ON. Repeat steps 3 to 5 if necessary.



ADJUSTMENT OF RF AGC

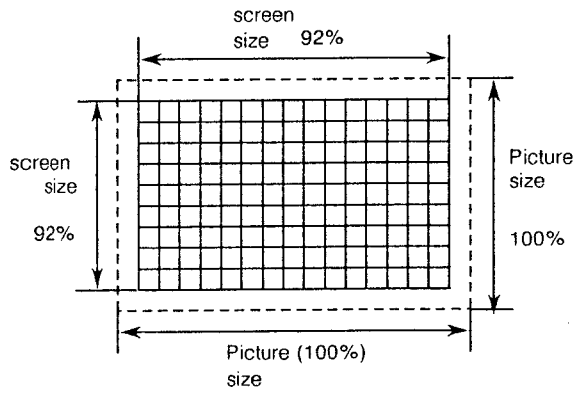
RF.AGC adjustment			No.19 RF AGC	1. Receive a broadcast. 2. Select "No.19 RF AGC" of the PICTURE MODE. 3. Press the MUTE key and turn off color. 4. With the MENU LEFT key, get noise in the screen picture.(0 side of setting value) 5. Press the MENU RIGHT key and stop when noise disappears from the screen. 6. Change to other channels and make sure that there is no irregularity. 7. Press the MUTE key and get color out.

ADJUSTMENT OF FOCUS

FOCUS adjustment	Signal generator		FOCUS VR [built-in HVT]	1. Receive a crosshatch signal. 2. While looking at the screen, adjust FOCUS VR so that the vertical and horizontal lines will be clear and in fine detail. 3. Make sure that the picture is in focus even when the screen gets darkened.

ADJUSTMENT OF DEFLECTION CIRCUIT

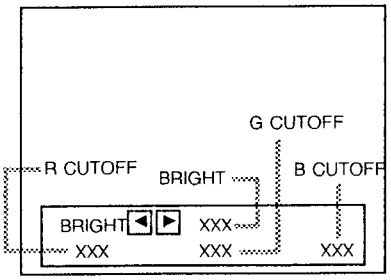
Item	Measuring instrument	Test point	Adjustment part	Description
V.CENTER, V.SIZE and V.POSITION Adjustment	Signal generator		No.14 V SIZE No.15 V CENTER V.CENTER SW (S1421)	1. Receive a crosshatch signal. 2. Make sure that the "No.15 V CENTER" of the PICTURE SERVICE MODE is 0. 3. Use the LIFT / RIGHT keys of the MENU to set the initial setting value for the No.14 V SIZE. 4. Adjust the vertical SCREEN size to 92% with the No.14 V SIZE and S1421 (V.CENTER SW).
H.WIDTH, SIDEPIN CORRECT and H.POSITION Adjustment	Signal generator		No.16 H POSITION SIDEPIN CORRECT VR (R1579) H.WIDTH VR (R1581)	1. Receive a crosshatch signal. 2. Adjust the SIDEPIN CORRECT. VR(R1579) so that vertical lines at both side of the crosshatch are straight. 3. Select the "No.16 H POSITION" of the PICTURE SERVICE MODE. 4. Press the LEFT / RIGHT keys of the MENU to set the initial setting value for the "No.16 H POSITION". 5. Adjust the "No.16 H POSITION" until the screen will be horizontally centered. 6. Adjust the H.WIDTH VR (R1581) so that 92%of the overall crosshatch is displayed on the screen. 7. As required, repeat above steps 2 and 6.

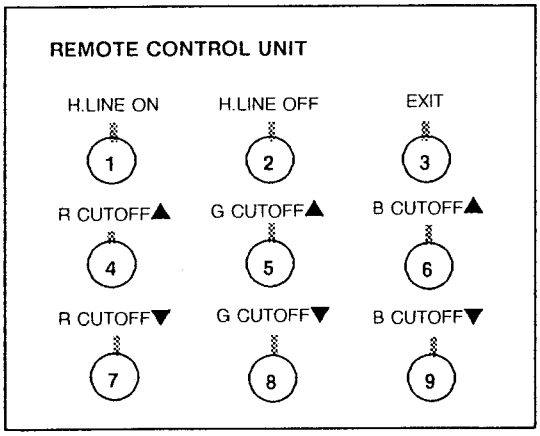


ADJUSTMENT OF VIDEO / CHROMA CIRCUIT

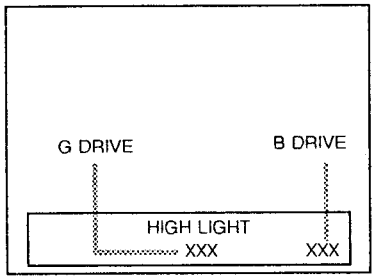
<table>
<tr><th>Item</th><th>Measuring instrument</th><th>Test point</th><th>Adjustment item</th><th>Description</th></tr>
<tr><td>WHITE BALANCE (Low Light) adjustment</td><td>Signal generator</td><td></td><td>BRIGHT
R CUTOFF
G CUTOFF
B CUTOFF
SCREEN VR</td><td>1. Receive a monoscope pattern signal.
2. Select the [LOW LIGHT] MODE from the SERVICE MENU.
3. Set the initial setting value of "BRIGHT" with the LEFT / RIGHT Key of the Remote control unit.
4. Set the initial setting value of "R CUTOFF", "G CUTOFF" and "B CUTOFF" with the ④ to ⑨ keys of the Remote control unit.
5. Display one horizontal line by pressing the ① key of the Remote control unit.
6. Turn the screen VR all the way to the left.
7. Turn the screen VR gradually to the right from the left until either one of the red, blue or green colors appears slightly.
8. Adjust the two colors which did not appear until the one horizontal line that is displayed becomes white using the ④ to ⑨ keys of the Remote control unit.
9. Turn the screen VR until the first horizontal line is displayed slightly.
10. Press the ② key to return to the regular screen.
11. Check the PIP brightness and adjust it by the screen VR if it is not optimal.
* The ③ EXIT key is the cancel key for the WHITE BALANCE.</td></tr>
<tr><td>WHITE BALANCE (High Light) adjustment</td><td>Signal generator</td><td></td><td>G DRIVE
B DRIVE</td><td>1. Receive a monoscope pattern signal.
2. Select the [HIGH LIGHT] MODE in the SERVICE MENU.
3. Set the initial setting value of "G DRIVE" and "B DRIVE" with the ⑤, ⑥, ⑧ and ⑨ keys of the Remote control unit.
4. Adjust the screen unit it becomes white using the ⑤, ⑥, ⑧ and ⑨ keys of the Remote control unit.
* The ③ EXIT key is the cancel key for the WHITE BALANCE.
Remote control unit
①key : H.LINE ON
②key : H.LINE OFF
③key : EXIT
⑤key : G DRIVE ▲
⑥key : B DRIVE ▲
⑧key : G DRIVE ▼
⑨key : B DRIVE ▼</td></tr>
</table>

[LOW LIGHT] MODE





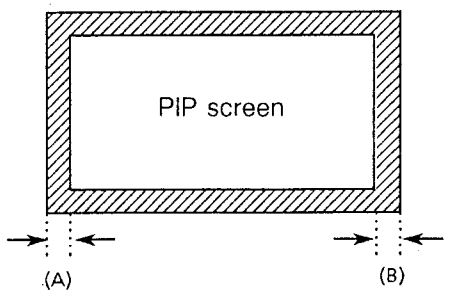
[HIGH LIGHT] MODE

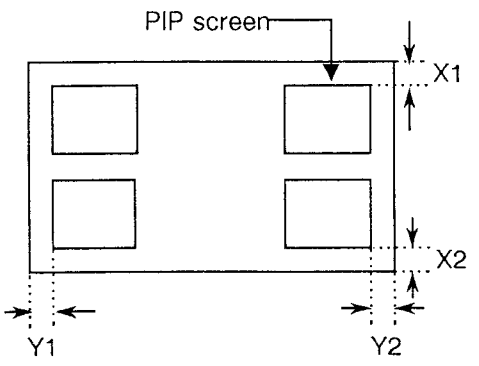


Item	Measuring instrument	Test point	Adjustment item	Description
SUB BRIGHT adjustment			No.1 BRIGHT	1. Receive a broadcast. 2. Select "No.1 BRIGHT" of the PICTURE MODE. 3. Set the initial setting value of the "No.1 BRIGHT" with the LEFT / RIGHT key of the MENU. 4. If the brightness is not the best with the initial setting value, make fine adjustment of the "No.1 BRIGHT" unit you get the optimum brightness.
SUB CONTRAST adjustment			No.2 PICTURE	1. Receive a broadcast. 2. Select "No.2 PICTURE" of the PICTURE MODE. 3. Set the initial setting value of the "No.2 PICTURE" with the LEFT / RIGHT key of the MENU. 4. If the contrast is not the best with the initial setting value, make fine adjustment of the "No.2 PICTURE" unit you get the optimum contrast.
SUB COLOR adjustment			No.7 COLOR	1. Receive a broadcast. 2. Select "No.7 COLOR" of the PICTURE MODE. 3. Set the initial setting value of the "No.7 COLOR" with the LEFT / RIGHT key of the MENU. 4. If the color is not the best with the initial setting value, make fine adjustment of the "No.7 COLOR" unit you get the optimum color.
SUB TINT adjustment			No.6 TINT	1. Receive a broadcast. 2. Select "No.6 TINT" of the PICTURE MODE. 3. Set the initial setting value of the "No.6 TINT" with the LEFT / RIGHT key of the MENU. 4. If the tint is not the best with the initial setting value, make fine adjustment of the "No.6 TINT" unit you get the optimum tint.

ADJUSTMENT OF PIP CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
RF.AGC (NOISE) adjustment			NOISE VR (R8123) [AV SELECTOR PWB]	1. Receive a broadcast. 2. Turn the NOISE VR so that noise appear in the picture. 3. Then adjust the NOISE VR in the direction where noise disappears from the picture, and stop it where noise has disappeared from the picture. 4. Select another channel, and make sure that there occurs no trouble.
PIP WHITE BALANCE adjustment	Signal generator		No.14 G GAIN No.15 B GAIN	1. Receive a black-and-white signal. (Color off) 2. Select the "No.14 G GAIN, No.15 B GAIN" of the PIP SERVICE MODE. 3. Set the corresponding initial setting values with the LEFT/RIGHT key of the menu. 4. Adjust the "No.14 G GAIN, No.15 B GAIN" until the screen becomes white.
PIP FRAME WIDTH adjustment	Signal generator		No. 9 FRAME	1. Receive a black-and-white signal. (Color off) 2. Select the "No.9 FRAME" of the PIP SERVICE MODE. 3. Adjust the "No.9 FRAME" so that the width of the PIP screen frame will be left to right equal (A = B).
PIP DISPLAY POSITION adjustment	Signal generator		No.2 V POSITION No.3 LOWER POS. No.4 H POSITION No.5 RIGHT POS.	1. Receive a black-and-white signal. (Color off) 2. Select the "No.2 V POSITION" of the PIP SERVICE MODE. 3. Set the initial setting value of the No.2 V POSITION" with the LEFT/RIGHT key of the menu. 4. Adjust the "No.2 V POSITION" so that the position of the PIP screen edge of upper will be at X1 as shown. 5. Adjust the corresponding modes of "No.3, No.4, No.5" with the same steps as 2~4 above.





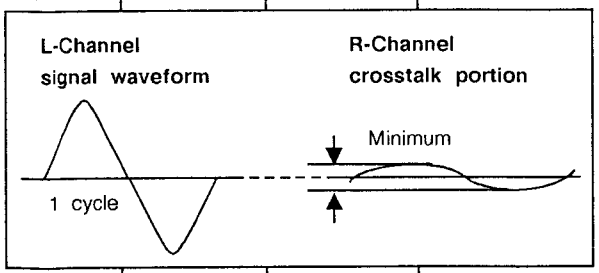
PIP SERVICE MODE NO.	Item	PIP SETTING POSITION Approx. (mm)
No.2	UPPER POSITION (X1)	35
No.3	LOWER POSITION (X2)	35
No.4	H POSITION (Y1)	45
No.5	RIGHT POSITION (Y2)	45

Item	Measuring instrument	Test point	Adjustment part	Description
PIP SUB CONTRAST adjustment			No.13 CONTRAST	1. Receive a broadcast. 2. Select "No.13 CONTRAST" of the PIP SERVICE MODE. 3. Set the initial setting value of the "No.13 CONTRAST" with the LEFT/RIGHT key of the menu. 4. If the contrast is not the best with the initial setting value, make fine adjustment of the "No.13 CONTRAST" until you get the optimum contrast.
PIP SUB COLOR adjustment			No.12 COLOR	1. Receive a broadcast. 2. Select "No.12 COLOR" of the PIP SERVICE MODE. 3. Set the initial setting value of the "No.12 COLOR" with the LEFT/RIGHT key of the menu. 4. If the color is not the best with the initial setting value, make fine adjustment of the "No.12 COLOR" until you get the optimum color.
PIP SUB TINT adjustment			No.11 TINT	1. Receive a broadcast. 2. Select "No.11 TINT" of the PIP SERVICE MODE. 3. Set the initial setting value of the "No.11 TINT" with the LEFT/RIGHT key of the menu. 4. If the tint is not the best with the initial setting value, make fine adjustment of the "No.11 TINT" until you get the optimum tint.

ADJUSTMENT OF MTS CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
MTS INPUT LEVEL check			No.4 IN LEVEL	1. Select the "No.4 IN LEVEL" of the SOUND MODE. 2. Verify that the "No.4 IN LEVEL" is set at its initial setting value.
MTS STEREO VCO adjustment	Signal generator Frequency counter	MPX Connector 2 pin RTV [AV SELECTOR PWB]	No.5 FH MONITER No.6 STEREO VCO	1. Receive a RF signal (nonmodulated sound signal) from the antenna terminal. 2. Select the "No.5 FH MONITER" of SOUND MODE, and change the setting value from 0 to 1. 3. Connect the Frequency Counter to pin 2 of MPX connector. 4. Select the "No.6 STEREO VCO". 5. Set the initial setting value of the "No.6 STEREO VCO" with the LEFT/RIGHT key of the menu. 6. Adjust the "No.6 STEREO VCO" so that the Frequency Counter will display 15.73KHz ± 0.1KHz. 7. Select the "No.5 FH MONITER" of the SOUND MODE, and reset the setting value from 1 to 0.

Item	Measuring instrument	Test point	Adjustment part	Description
MTS SAP VCO adjustment	Signal generator Frequency counter	[MPX] Connector [4] pin SDA [3] pin GND [2] pin RTV [AV SELECTOR PWB]	No.11 5FH MON. No.12 SAP VCO	1. Receive a RF signal (non modulated sound signal) from the antenna terminal. 2. Connect between pin [4] of [MPX] connector and GND (Pin [3] of [MPX] connector) through 1MΩ Resistor. 3. Select the "No.11 5FH MON." of the SOUND MODE, and reset the setting value from 0 to 1. 4. Connect the Frequency Counter to pin [2] (R.OUT) of [MPX] connector. 5. Select the "No.12 SAP VCO". 6. Set the initial setting value of "No.12 SAP VCO" with the LEFT/RIGHT key of the menu. 7. Adjust the "No.12 SAP VCO" so that the Frequency Counter will display 78.67KHz ± 0.5KHz. 8. Select the "No.11 5FH MON." of the SOUND MODE, and reset the setting value from 1 to 0.
MTS FILTER check			No.8 FILTER	1. Select the "No.8 FILTER" of the SOUND MODE. 2. Verify that the "No.8 FILTER" is set at its initial setting value.
MTS SEPARATION adjustment	TV audio multiplex signal generator Oscilloscope	[MPX] Connector [1] pin LTV [2] pin RTV [AV SELECTOR PWB]	No.9 LOW SEP. No.10 HI SEP.	1. Input a stereo L signal (300Hz) from the TV Audio Multiplex Signal Generator to the antenna terminal. 2. Connect an oscilloscope to pin [1] (L OUT) of [MPX] connector, and display one cycle portion of the 300Hz signal. 3. Change the connection of the oscilloscope to pin [2] (R OUT) of [MPX] connector, and enlarge the voltage axis. 4. Select the "No.9 LOW SEP." of the SOUND MODE. 5. Set the initial setting value of the "No.9 LOW SEP." with the LEFT/RIGHT key of the menu. 6. Adjust the "No.9 LOW SEP." so that the stroke element of the 300Hz signal will become minimum. 7. Change the signal to 3kHz, and similarly adjust the "No.10 HI SEP.".



PURITY, CONVERGENCE

PURITY ADJUSTMENT

1. Demagnetize CRT with the demagnetizer.
2. Loosen the retainer screw of the deflection yoke.
3. Remove the wedge.
4. Input a Green Raster signal from the Signal Generator, and turn the screen to Green Raster.
5. Move the deflection yoke backward.
6. Bring the long lug of the purity magnets on the short lug and position them horizontally. (Fig. 3)
7. Adjust the gap between two lugs so that the Green Raster will come into the center of the screen. (Fig. 4)
8. Move the deflection yoke forward, and fix the position of the deflection yoke so that the whole screen will become green.
9. Insert the wedge to the top side of the deflection yoke so that it will not move.
10. Input a crosshatch signal.
11. Verify that the screen is horizontal.
12. Input red and Blue Raster signals, and make sure that purity is properly adjusted.

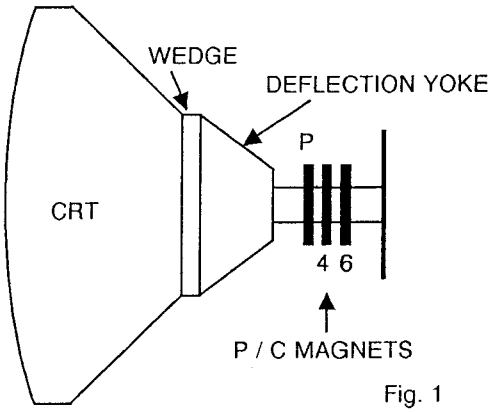


Fig. 1

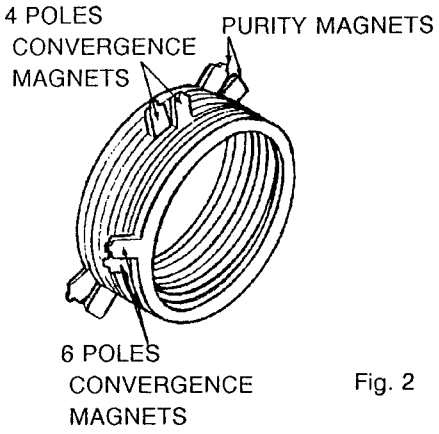
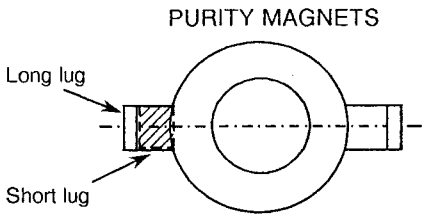


Fig. 2



Bring the long lug over the short lug and position them horizontally.

Fig. 3

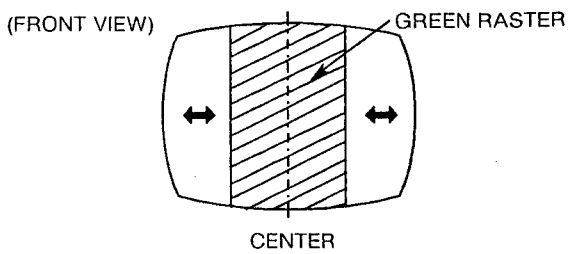


Fig. 4

STATIC CONVERGENCE ADJUSTMENT

1. Input a crosshatch signal.
2. Using 4-pole convergence magnets, overlap the red and blue lines in the center of the screen and turn them to magenta (red/blue).
3. Using 6-pole convergence magnets, overlap the magenta (red/blue) and green lines in the center of the screen and turn them to white.
4. Repeat 2 and 3 above, and make best convergence.

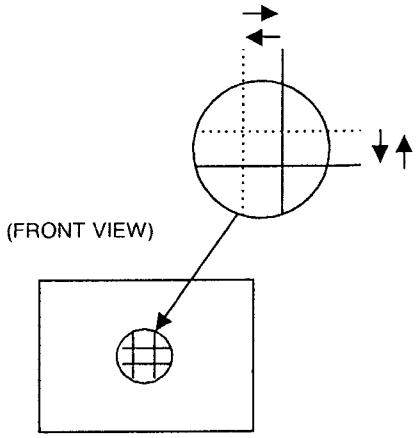


Fig. 1

DYNAMIC CONVERGENCE ADJUSTMENT

1. Move the deflection yoke up and down and overlap the lines in the periphery. (Fig. 2)
2. Move the deflection yoke left to right and overlap the lines in the periphery. (Fig. 3)
3. Repeat 1 and 2 above, and make best convergence.

(FRONT VIEW)

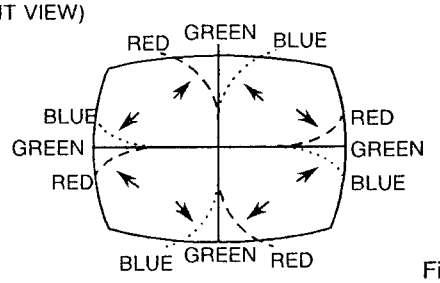


Fig. 2

(FRONT VIEW)

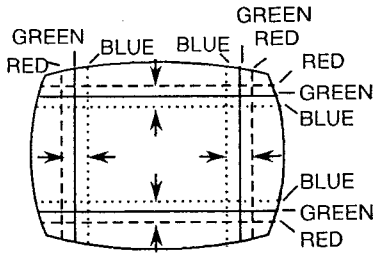


Fig. 3

- After adjustment, fix the wedge at the original position.
  Fasten the retainer screw of the deflection yoke.
  Fix the 6 magnets with glue.

HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

1. HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit shown in Fig. 1.
This circuit shall be checked to operate correctly.

2. CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

(1) Turn the POWER SW ON.
(2) As shown in Fig. 2, set the resistor (between [X] connector [1] & [3]).
(3) Make sure that the screen picture disappears.
(4) Temporarily unplug the power cord.
(5) Remove the resistor(between [X] connector [1] & [3]).
(6) Again plug the power cord, make sure that the normal picture is displayed on the screen.

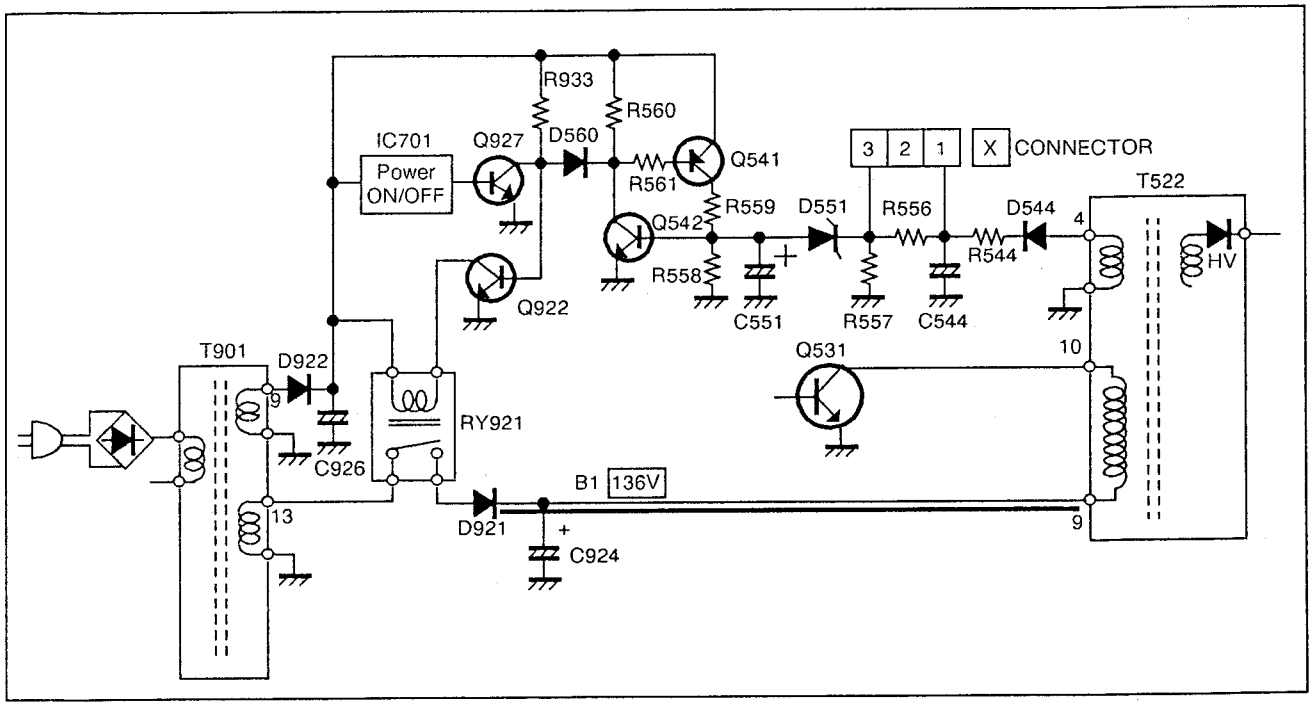


Fig. 1

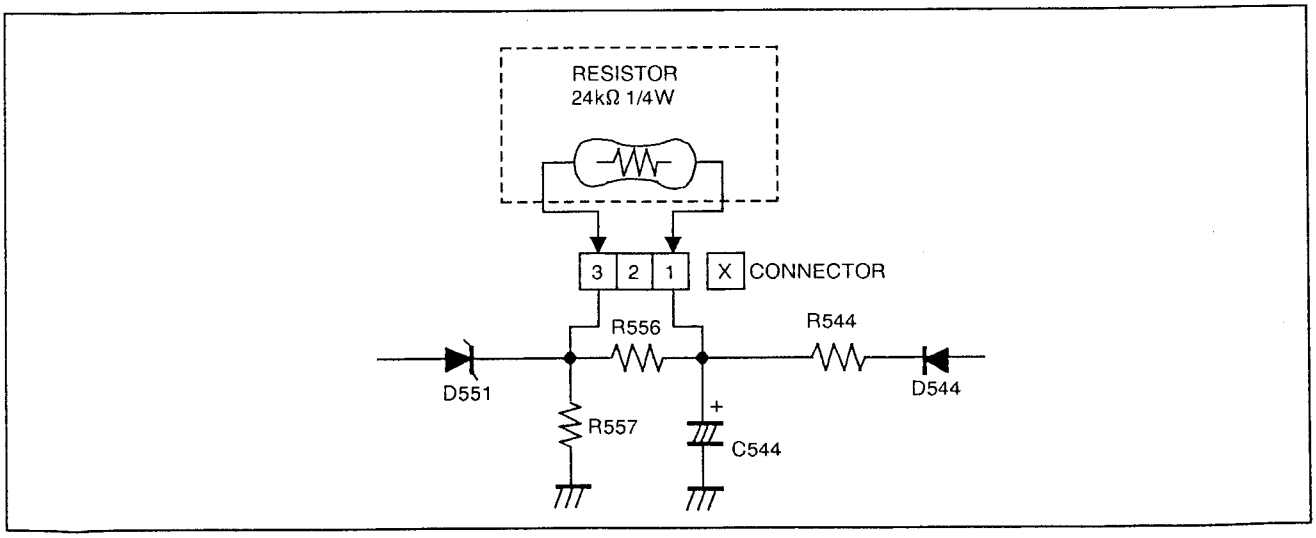


Fig. 2

REPLACEMENT OF CHIP COMPONENT

■CAUTIONS

1. Avoid heating for more than 3 seconds.
2. Do not rub the electrodes and the resist parts of the pattern.
3. When removing a chip part, melt the solder adequately.
4. Do not reuse a chip part after removing it.

■SOLDERING IRON

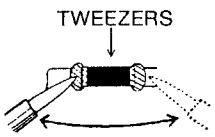
1. Use a high insulation soldering iron with a thin pointed end of it.
2. A 30w soldering iron is recommended for easily removing parts.

■REPLACEMENT STEPS

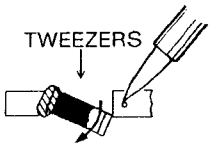
1. How to remove Chip parts

•Resistors, capacitors, etc

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.

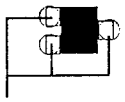


(2) Shift with tweezers and remove the chip part.

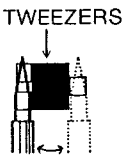


•Transistors, diodes, variable resistors, etc

(1) Apply extra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.

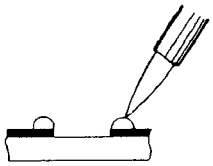


Note: After removing the part, remove remaining solder from the pattern.

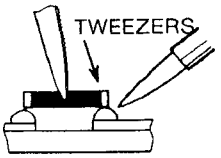
2. How to install Chip parts

•Resistors, capacitors, etc

(1) Apply solder to the pattern as indicated in the figure.



(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

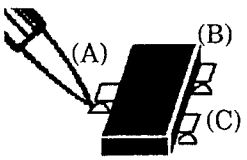


•Transistors, diodes, variable resistors, etc

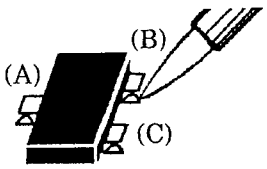
(1) Apply solder to the pattern as indicated in the figure.

(2) Grasp the chip part with tweezers and place it on the solder.

(3) First solder lead A as indicated in the figure.



(4) Then solder leads B and C.



AV-32750(US&CA) AV-32770(US) STANDARD CIRCUIT DIAGRAM

■NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal :Color bar signal
(2)Setting positions of each knob/button and variable resistor :Original setting position when shipped
(3)Internal resistance of tester :DC 20kΩ/V
(4)Oscilloscope sweeping time :H ⇒20μS/div
:V ⇒5mS/div
:Others ⇒ Sweeping time is specified
(5)Voltage values :All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL[EXAMPLE]

●In the PW board :R1209→R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

●Resistance value
No unit :[Ω]
K :[KΩ]
M :[MΩ]

●Rated allowable power
No indication :1/6[W]
Others :As specified

●Type
No indication :Carbon resistor
OMR :Oxide metal film resistor
MFR :Metal film resistor
MPR :Metal plate resistor
UNFR :Uninflammable resistor
FR :Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

●Capacitance value
1or higher :[pF]
less than 1 :[μF]

●Withstand voltage
No indication :DC50[V]
Others :DC withstand voltage[V]
AC indicated :AC withstand voltage[V]

* Electrolytic Capacitors
47/50[Example]:Capacitance value[μF]/withstand voltage[V]

●Type
No indication :Ceramic capacitor
MY :Mylar capacitor
MM :Metalized mylar capacitor
PP :Polypropylene capacitor
MPP :Metalized polypropylene capacitor
MF :Metalized film capacitor
TF :Thin film capacitor
BP :Bipolar electrolytic capacitor
TAN :Tantalum capacitor

(3)Coils

No unit :[μH]
Others :As specified

(4)Power Supply

:B1(136V)
:B2(12V)
:9V
:5V

* Respective voltage values are indicated.

(5)Test Point

: Test point
: Only test point display

(6)Connecting method

: Connector
: Wrapping or soldering
: Receptacle

(7)Ground symbol

: LIVE side ground
: ISOLATED(NEUTRAL) side ground
: EARTH ground
: DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1) Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. If the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

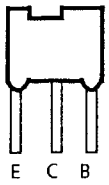
(2) Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◇ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

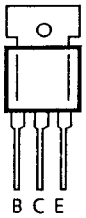
July 1996 No.51129

SEMICONDUCTOR SHAPES (* = Bottom view)

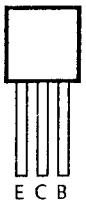
TRANSISTORS



2SC4502-T
2SC5083(L-P)

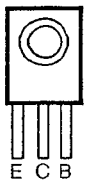


2SC2068-LB
2SC4256
2SD1133(CD)

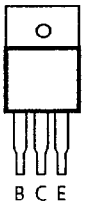


2SA933(QR)
2SA933S(QR)
2SA1309A(QR)
2SC1740(QR)
2SC1740S(QR)
2SC2785(JH)

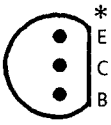
2SC3311A(QR)
DTC114YS
DTC124ES
DTC323TS
2SA1585S(R)-T



2SC4212
2SC4212-C1

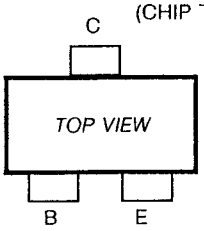


2SC4544-C1
2SD1555
2SD1554-C1
2SD1876-YD
2SD1878-YD
2SD2499-LB
2SD2539-LB



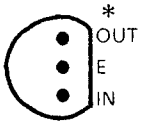
2SA1015(YG)
2SA673(C)
2SA949(Y)
2SA966(OY)
2SB774(RS)
2SC1815(YG)

(CHIP TR)

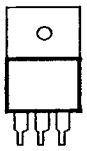


2SA1037K(QR)-X
2SA1162(YG)-X
2SC2712(YG)-X
2SC2412K(QR)-X
DTC124EKA-X
DTA124EKA-X

ICs

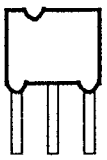


AL78L09
AN78L05
AN78L12
RC78L05A-Y
TA78L005AP
TA78L012AP
KIA78L05BP-Y

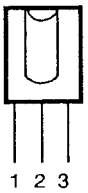


TA78005AP
TA78012AP
AN7805
UPC2412HF
UPC2405HF

KIA7809AI
KIA7805PI
KIA7809PI
XRA17809T



MN1280-K
MN1280-Q



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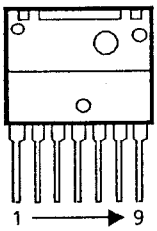
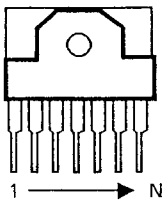
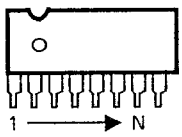


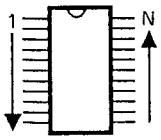
STR-S5708
STR-S6301



LA7830
LA7832
LA4485



XRA15218N
BA7644AN



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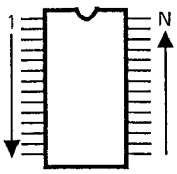
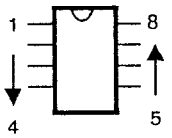
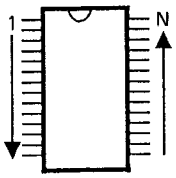
MC14066BCP
TC4066BP
TEA5114A
VUC2003
UPD6326C
LA7583
AN5860



MN1874862JKY1
M65109BSP
M51365SP
TA1201AN
TA8662N
TA8720AN
TA8759AN
TA1242N
MN1874876J7R3

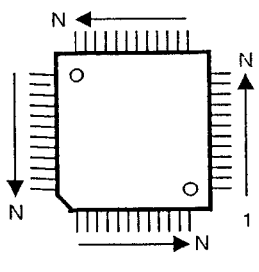


AT24C04-10PC
BA15218N
AT24C04-27750U

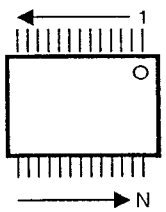


CXA1124BS
CXA1545AS
CXL5005P
FCB61C65-70P
LA4261
M37201M6-540SP
M50253P
M51496P
M52005P
PCF84C81P/064
SAA5231
SAA5243P/E
TDA1526
TDA3810
UPC1851CU
UPC1851CU-02
LA7403

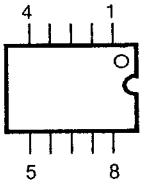
CHIP ICs



LC74401E



LC7480M-W
TA8779F-X
LC74411



BA7655AF-X

■ CHANNEL CHART(US)

MODE TV	MODE CATV	BAND	CHANNEL REAL	CHANNEL DISP.	TUNER BAND
○	○	VL	02		I
			03		
			04		
			05		
			06		
		VH	07		II
			08		
			09		
			10		
			11		
			12		
			13		
×	○	MID	A	14	I
			B	15	
			C	16	II
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W + 1	37	
			W + 2	38	
			W + 3	39	
			W + 4	40	
			W + 5	41	
			W + 6	42	
			W + 7	43	
			W + 8	44	
			W + 9	45	
			W + 10	46	
			W + 11	47	
			W + 12	48	IV
			W + 13	49	
			W + 14	50	
			W + 15	51	
			W + 16	52	
			W + 17	53	
			W + 18	54	
			W + 19	55	
			W + 20	56	
			W + 21	57	
			W + 22	58	
			W + 23	59	
			W + 24	60	
			W + 25	61	
			W + 26	62	
			W + 27	63	
			W + 28	64	
		ULTRA	W + 29	65	
			W + 30	66	
			W + 31	67	
			W + 32	68	
			W + 33	69	
			W + 34	70	

MODE TV	MODE CATV	BAND	CHANNEL REAL	CHANNEL DISP.	TUNER BAND
×	○	ULTRA	W + 35	71	IV
			W + 36	72	
			W + 37	73	
			W + 38	74	
			W + 39	75	
			W + 40	76	
			W + 41	77	
			W + 42	78	
			W + 43	79	
			W + 44	80	
			W + 45	81	
			W + 46	82	
			W + 47	83	
			W + 48	84	
			W + 49	85	
			W + 50	86	
			W + 51	87	
			W + 52	88	
			W + 53	89	
			W + 54	90	
			W + 55	91	
			W + 56	92	
			W + 57	93	
			W + 58	94	
			W + 59	100	
			W + 60	101	
			W + 61	102	
			W + 62	103	
			W + 63	104	
			W + 64	105	
			W + 65	106	
			W + 66	107	
			W + 67	108	
			W + 68	109	
			W + 69	110	
			W + 70	111	
			W + 71	112	
			W + 72	113	
			W + 73	114	
			W + 74	115	
			W + 75	116	
			W + 76	117	
			W + 77	118	
			W + 78	119	
			W + 79	120	
			W + 80	121	
			W + 81	122	
			W + 82	123	
			W + 83	124	
			W + 84	125	
		SUB MID	A-8	01	I
			A-4	96	
			A-3	97	II
			A-2	98	
			A-1	99	
○	×	UHF	14 ~ 69		IV

TOTAL 180CH
{ VHF 124CH
UHF 56CH

NOTE:
TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES.
SPECIAL ADAPTERS MAY BE REQUIRED.

CHANNEL CHART(CA)

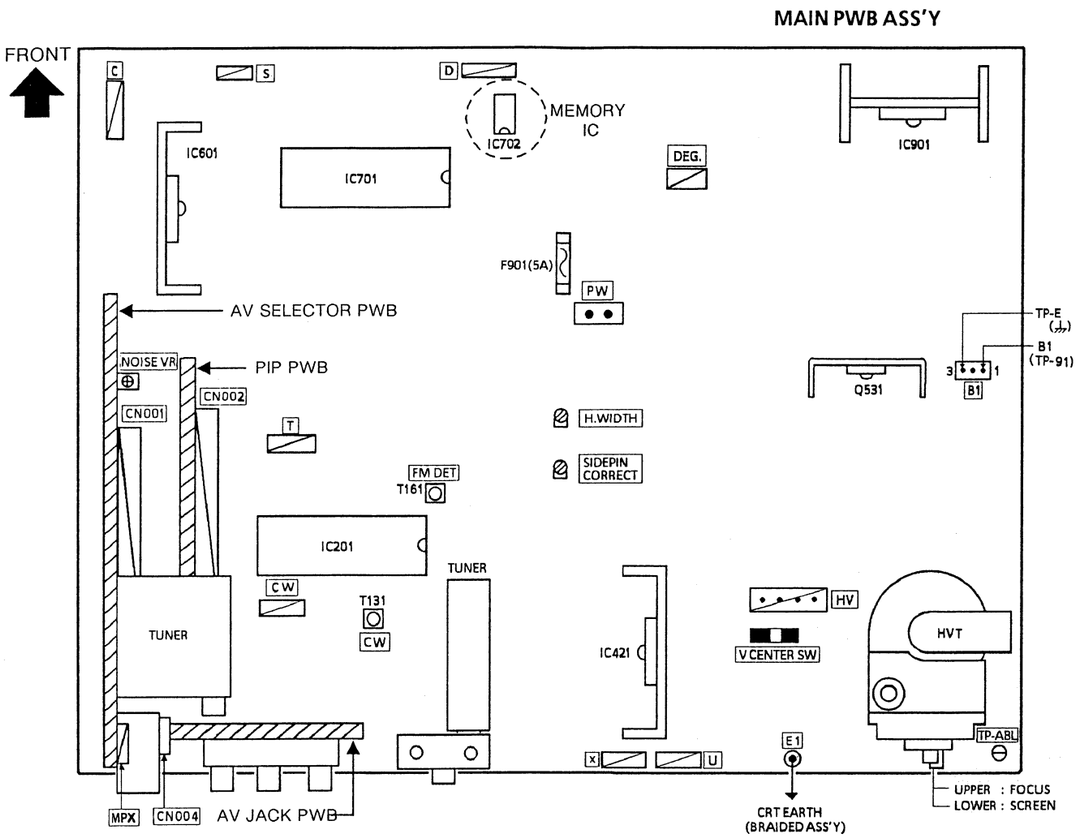
MODE TV	MODE CATV	BAND	CHANNEL REAL	CHANNEL DISP.	TUNER BAND
○	○	VL	02		I
			03		
			04		
			05		
			06		
		VH	07		II
			08		
			09		
			10		
			11		
			12		
			13		
×	○	MID	A	14	II
			B	15	
			C	16	
			D	17	
			E	18	
			F	19	
			G	20	
			H	21	
			I	22	
		SUPER	J	23	
			K	24	
			L	25	
			M	26	
			N	27	
			O	28	
			P	29	III
			Q	30	
			R	31	
			S	32	
			T	33	
			U	34	
			V	35	
			W	36	
		HYPER	W + 1	37	
			W + 2	38	
			W + 3	39	
			W + 4	40	
			W + 5	41	
			W + 6	42	
			W + 7	43	
			W + 8	44	
			W + 9	45	
			W + 10	46	
			W + 11	47	
			W + 12	48	
			W + 13	49	
			W + 14	50	
			W + 15	51	
			W + 16	52	
			W + 17	53	
			W + 18	54	
			W + 19	55	
			W + 20	56	
			W + 21	57	
			W + 22	58	
			W + 23	59	
			W + 24	60	
			W + 25	61	
			W + 26	62	
			W + 27	63	
			W + 28	64	
		ULTRA	W + 29	65	
			W + 30	66	
			W + 31	67	
			W + 32	68	
			W + 33	69	IV
			W + 34	70	

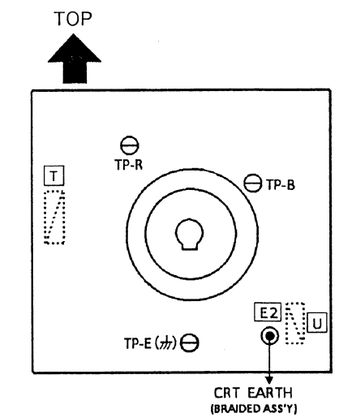
MODE TV	MODE CATV	BAND	CHANNEL REAL	CHANNEL DISP.	TUNER BAND
×	○	ULTRA	W + 35	71	IV
			W + 36	72	
			W + 37	73	
			W + 38	74	
			W + 39	75	
			W + 40	76	
			W + 41	77	
			W + 42	78	
			W + 43	79	
			W + 44	80	
			W + 45	81	
			W + 46	82	
			W + 47	83	
			W + 48	84	
			W + 49	85	
			W + 50	86	
			W + 51	87	
			W + 52	88	
			W + 53	89	
			W + 54	90	
			W + 55	91	
			W + 56	92	
			W + 57	93	
			W + 58	94	
			W + 59	100	
			W + 60	101	
			W + 61	102	
			W + 62	103	
			W + 63	104	
			W + 64	105	
			W + 65	106	
			W + 66	107	
			W + 67	108	
			W + 68	109	
			W + 69	110	
			W + 70	111	
			W + 71	112	
			W + 72	113	
			W + 73	114	
			W + 74	115	
			W + 75	116	
			W + 76	117	
			W + 77	118	
			W + 78	119	
			W + 79	120	
			W + 80	121	
			W + 81	122	
			W + 82	123	
			W + 83	124	
			W + 84	125	
		SUB MID	A-8	01	I
			A-4	96	
			A-3	97	II
			A-2	98	
			A-1	99	
○	×	UHF	14 ~ 69		IV

TOTAL 180CH
{ VHF 124CH
UHF 56CH

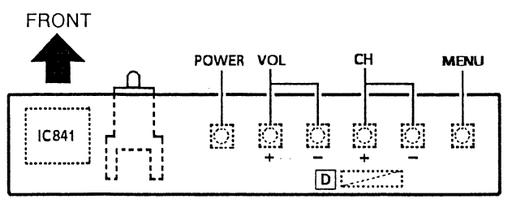
NOTE:
TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES.
SPECIAL ADAPTERS MAY BE REQUIRED.

MAIN PARTS LOCATION AND ALIGNMENT LOCATION





CRT SOCKET PWB ASS'Y (SOLDER SIDE)



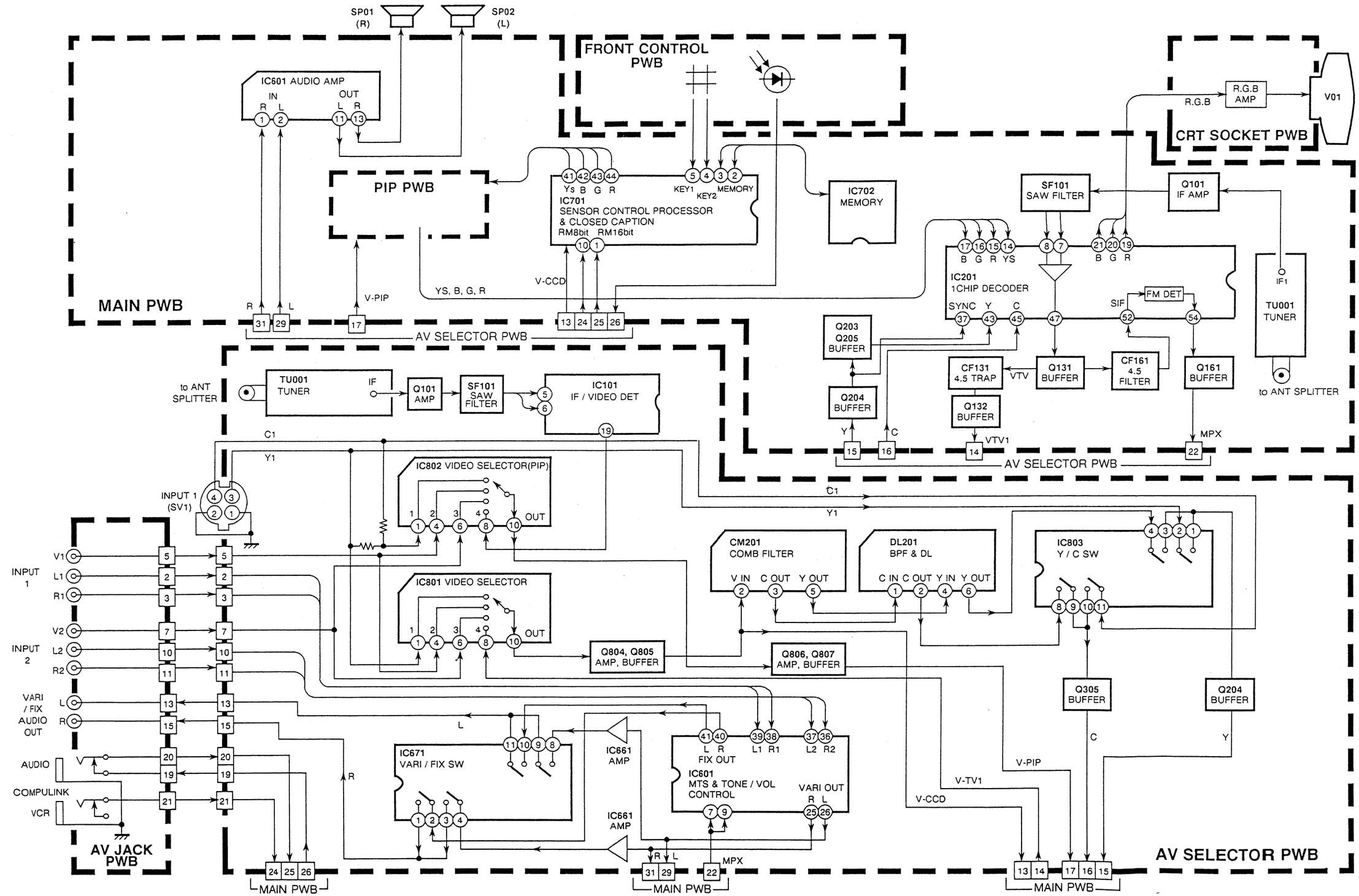
FRONT CONTROL PWB ASS'Y (SOLDER SIDE)

WIRING LIST

P.W.B. or PART NAME	CONNECTOR NAME	WIRE	CONNECTOR NAME	P.W.B. or PART NAME
MAIN PWB ASS'Y	D	⟷	D	FRONT CONTROL PWB ASS'Y
MAIN PWB ASS'Y	T	⟷	T	CRT SOCKET PWB ASS'Y
MAIN PWB ASS'Y	U	⟷	U	CRT SOCKET PWB ASS'Y
MAIN PWB ASS'Y	H/V	⟷	WIRE	DEF. YOKE
MAIN PWB ASS'Y	DEG	⟷	WIRE	DEG. COIL
MAIN PWB ASS'Y	PW	⟷	WIRE	POWER CORD
MAIN PWB ASS'Y	S	⟷	WIRE	SPEAKER (L/R)
MAIN PWB ASS'Y	E1 CRT EARTH	⟷	EARTH WIRE	CRT (BRAIDED ASS'Y)
CRT SOCKET PWB ASS'Y	E2 CRT EARTH	⟷	EARTH WIRE	CRT (BRAIDED ASS'Y)

●NOTE :Refer to Main Parts and Alignment Locations for detailed connector positions.

BLOCK DIAGRAM



CIRCUIT DIAGRAMS AND PWB PATTERNS

MAIN PWB, FRONT CONTROL PWB CIRCUIT DIAGRAMS [AV-32750(US&CA)]

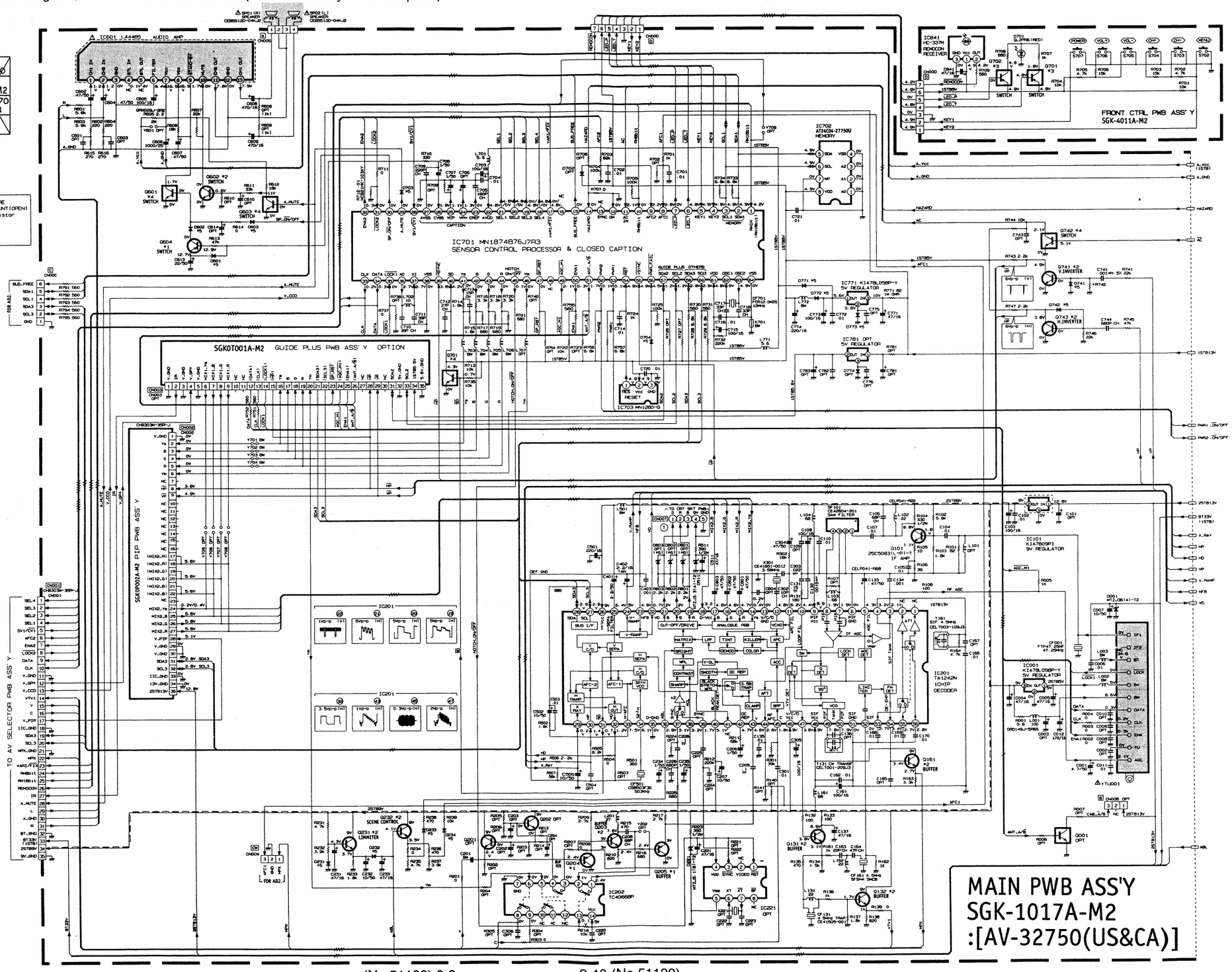
Refer to the following PWB pattern. : MAIN PWB PATTERN page 2-21, 2-22, FRONT CONTROL PWB PATTERN page 2-26.

This schematic diagram is applicable to both (US) and (CA) models.
As for the parts (marked by ∗) in the diagram, refer to the difference list (also marked by ∗ for the parts).

DIFFERENCE LIST(P2-9~P2-10)
(MARKED'∗'PART)

MODEL	AV-27750	AV-32750	AV-35750
∗	SGK-1012A-M2	SGK-1017A-M2	SGK-1021A-M2
TU001⚠	CEEK280-A01	CEEM270-A01	CEEM270-A01
R742	8.2k	10k	10k

NOTE
∗1 : CHIP PNP Tr 2SA1037K(QR)-X
∗2 : CHIP NPN Tr 2SC2412K(QR)-X
∗3 : CHIP PNP D-Tr DTA124EKA-X
∗4 : CHIP NPN D-Tr DTC124EKA-X
∗5 : SI DIODE 1SS133-T2
∗6 : ZENER DIODE MTZJ9.1(C)-T2
∗7 : ZENER DIODE MTZJ5.6(A)-T2
BW : BUS WIRE
OPT : NON-MOUNT(OPEN)
0 : 0Ω Resistor



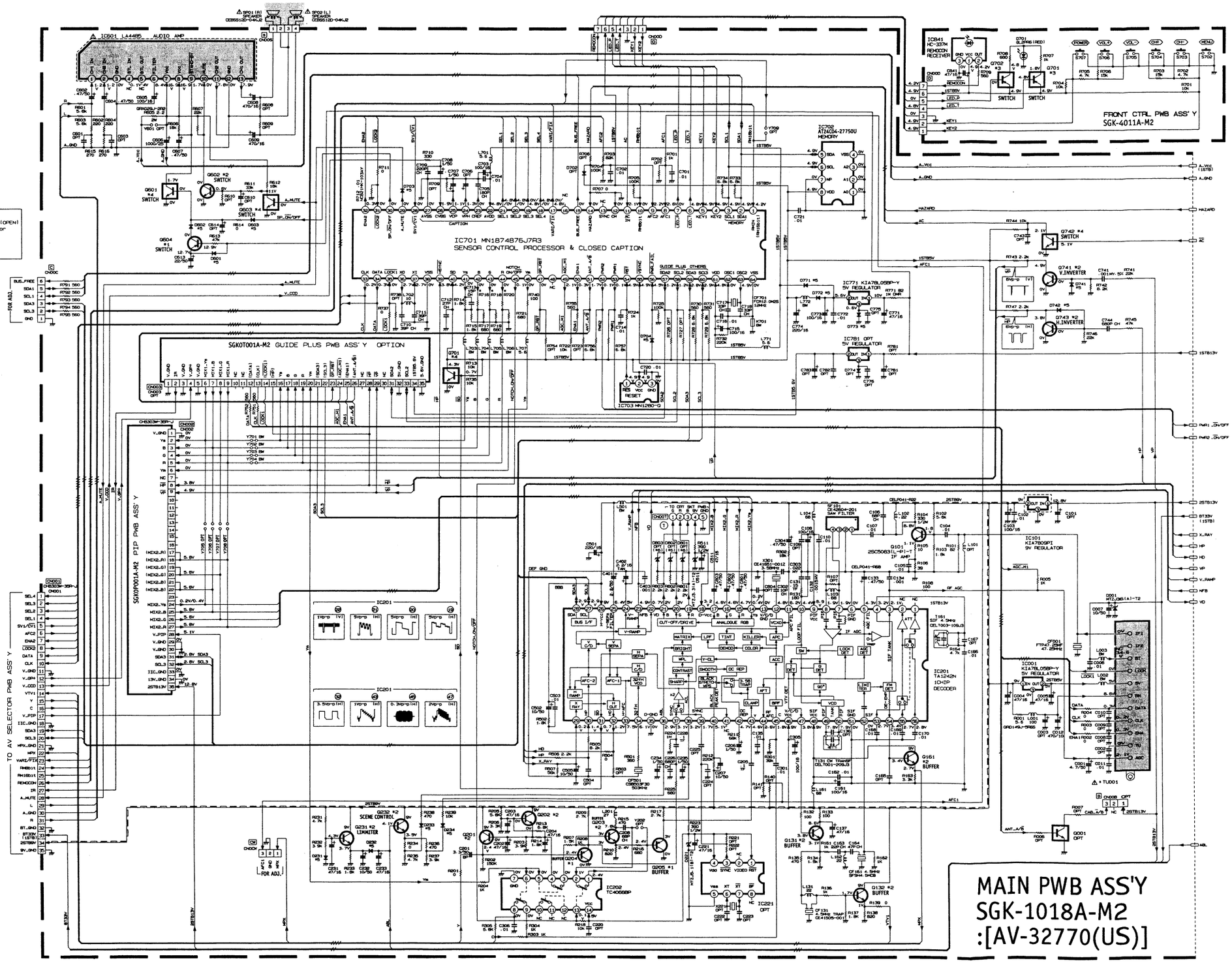
MAIN PWB, FRONT CONTROL PWB CIRCUIT DIAGRAMS [AV-32770(US)]

Refer to the following PWB pattern. : MAIN PWB PATTERN page 2-21, 2-22, FRONT CONTROL PWB PATTERN page 2-26.

DIFFERENCE LIST(P2-11~P2-12)
(MARKED"*"PART)

MODEL	AV-27770	AV-32770	AV-35770
*	SGK-1013A-M2	SGK-1018A-M2	SGK-1021A-M2
TU001 ⚠	CEEK280-A01	CEEM270-A01	CEEM270-A01
R716	3.3k	2.7k	2.7k
R718	3.3k	2.7k	2.7k
R720	3.3k	2.7k	2.7k

NOTE
*1 : CHIP PNP Tr 2SA1037K(QR)-X
*2 : CHIP NPN Tr 2SC2412K(QR)-X
*3 : CHIP PNP D-Tr DTA124EKA-X
*4 : CHIP NPN D-Tr DTC124EKA-X
*5 : SI DIODE 1SS133-T2
*6 : ZENER DIODE MTZJ9.1(C1-T2
*7 : ZENER DIODE MTZJ5.6(A1-T2
BW : BUS WIRE
OPT : NON-MOUNT(OPEN)
0 : 0Ω Resistor



MAIN PWB, CRT SOCKET PWB CIRCUIT DIAGRAMS

Refer to the following PWB pattern. : MAIN PWB PATTERN page 2-21, 2-22,
CRT SOCKET PWB PATTERN page 2-27.

DIFFERENCE LIST(P2-13~P2-14)
(MARKED"*"PART)

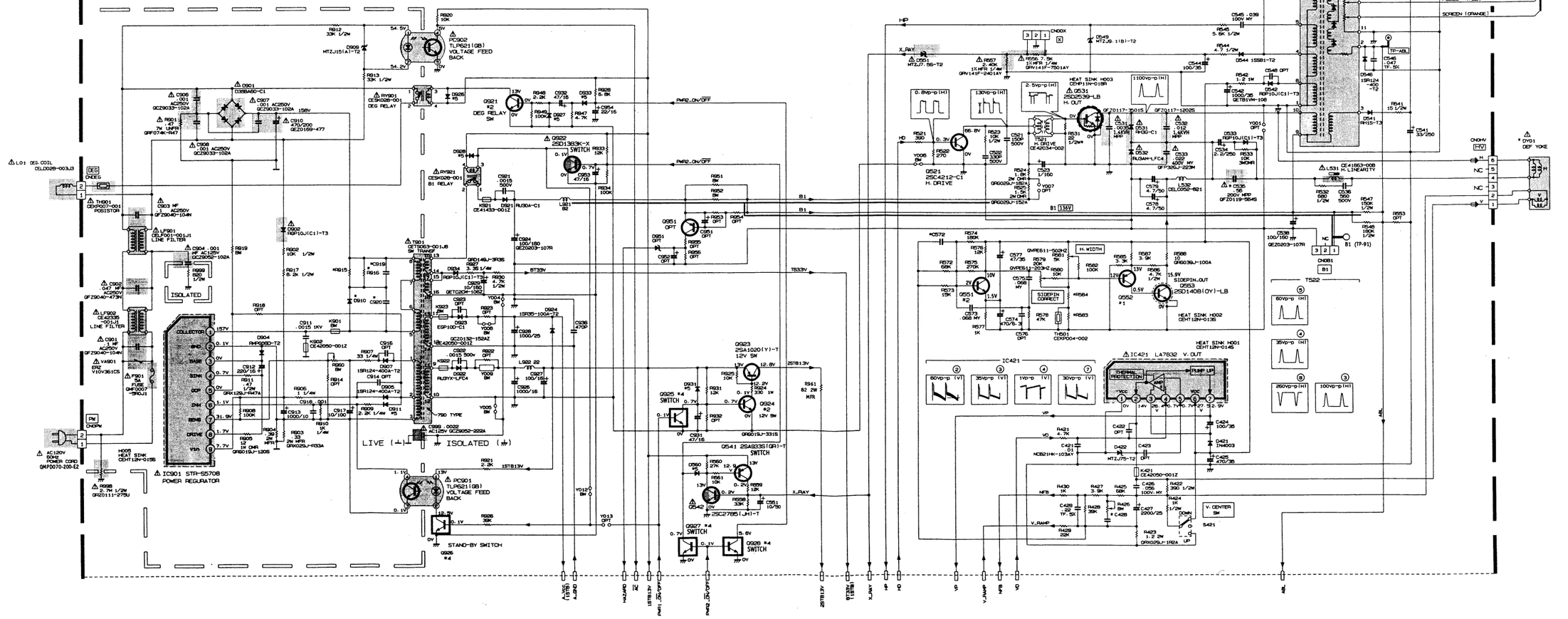
MODEL	AV-32720	AV-32730	AV-32750	AV-32770	AV-32790	AV-32720AU
*	SGK-1015A-M2	SGK-1016A-M2	SGK-1017A-M2	SGK-1018A-M2	SGK-1019A-M2	SGK-1024A-M2
D910	OPT	OPT	OPT	OPT	BG1A-T3	OPT
R583	560	560	560	560	560	1.8K
R584	1.8K	1.8K	1.8K	1.8K	1.8K	1.5K
R915	OPT	OPT	OPT	OPT	QRG039J-223A	OPT
R916	OPT	OPT	OPT	OPT	QRG039J-223A	OPT
C428	.47/50 TF. 5%	.47/50 TF. 5%	.47/50 TF. 5%	.47/50 TF. 5%	.47/50 TF. 5%	.68/50 TF. 5%
C535 ⚠	QFZ0119-564S	QFZ0119-564S	QFZ0119-564S	QFZ0119-564S	QFZ0119-564S	QFZ0119-754S
C572	OPT	OPT	OPT	OPT	OPT	.033 MY
C919	OPT	OPT	OPT	OPT	QFP32GK-103M	OPT
C920	OPT	OPT	OPT	OPT	QQZ0122-102M	OPT
L591 ⚠	CELC901-D46J6	CELC901-D46J6	CELC901-046J6	CELC901-046J6	CELC901-D46J6	CELC901-D43J6
V01 ⚠	M80JUA061X	M80JUA061X	M80JUA061X	M80JUA061X	M80JUA061X	A80LJF30X08
DY01 ⚠	CE20317-00A	CE20317-00A	CE20317-00A	CE20317-00A	CE20317-00A	Within Picture tube

CRT SOCKET PWB ASS'Y
DIFFERENCE LIST(P2-14)
(MARKED"*"PART)

MODEL	AV-32720AU	AV-32730	AV-32750	AV-32770	AV-32790
*	SGK-3018A-M2	SGK-3013A-M2	SGK-3014A-M2		
	—	—	—	—	—

NOTE
*1 : CHIP PNP Tr 2SA1037K(QR)-X
*2 : CHIP NPN Tr 2SC2412K(QR)-X
*3 : CHIP PNP D-Tr DTA124EKA-X
*4 : CHIP NPN D-Tr DTC124EKA-X
*5 : SI DIODE 1SS133-T2
*6 : ZENER DIODE MTZJ9.1(C)-T2
*7 : ZENER DIODE MTZJ5.6(A)-T2
BW : BUS WIRE
OPT : NON-MOUNT(OPEN)
0 : 0Ω Resistor

MAIN PWB ASS'Y
SGK-1017A-M2:[AV-32750(US&CA)]
SGK-1018A-M2:[AV-32770(US)]



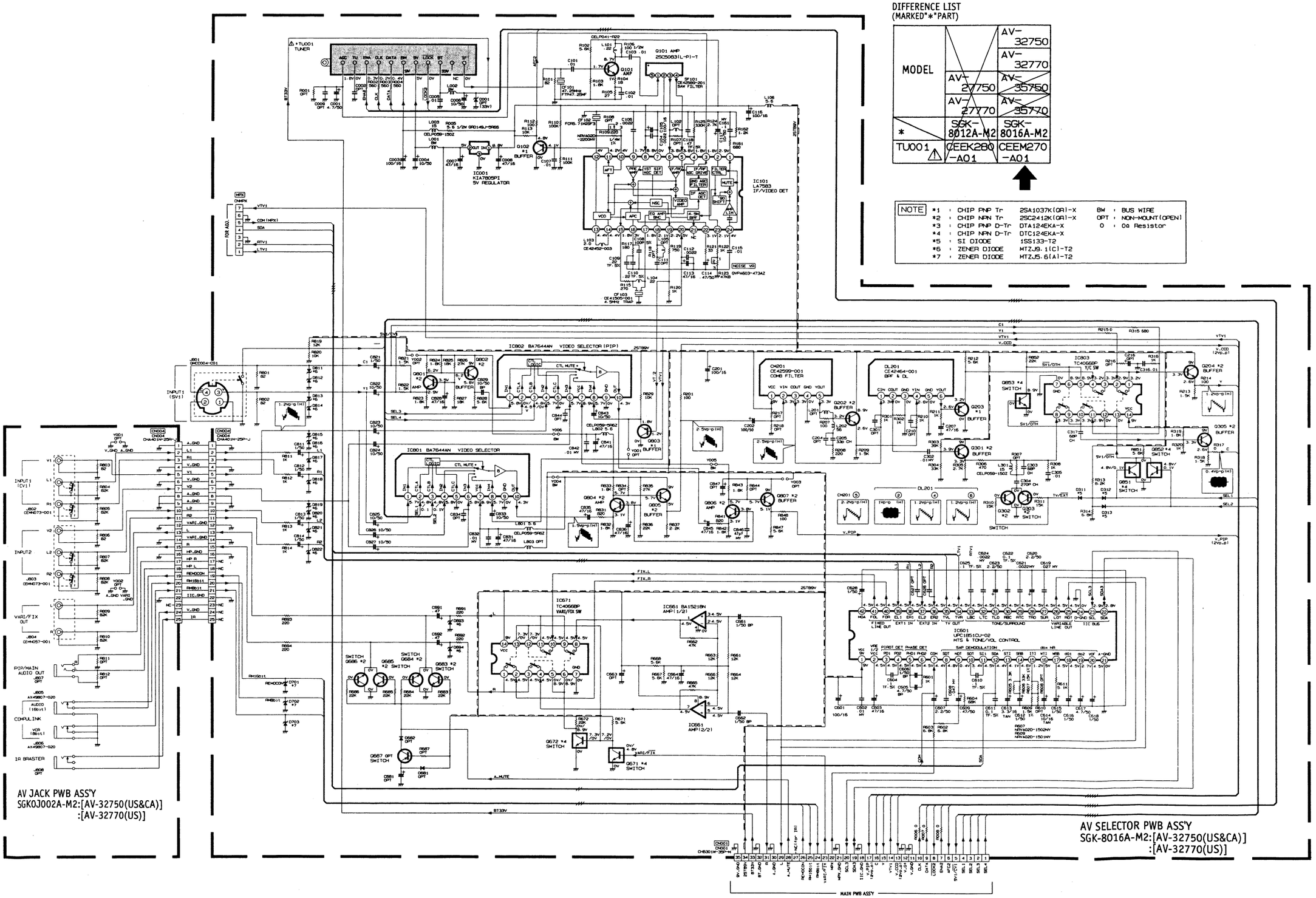
AV SELECTOR PWB, AV JACK PWB CIRCUIT DIAGRAMS

Refer to the following PWB pattern. : AV SELECTOR PWB PATTERN page 2-23, 2-24,
AV JACK PWB PATTERN page 2-26.

DIFFERENCE LIST
(MARKED"*"PART)

MODEL	AV-32750	AV-32770
	AV-27750	AV-35750
	AV-27770	AV-35770
*	SGK-8012A-M2	SGK-8016A-M2
TU001 ⚠	CEEK280-A01	CEEM270-A01

NOTE
*1 : CHIP PNP Tr 2SA1037K(QR)-X
*2 : CHIP NPN Tr 2SC2412K(QR)-X
*3 : CHIP PNP D-Tr DTA124EKA-X
*4 : CHIP NPN D-Tr DTC124EKA-X
*5 : SI DIODE 1SS133-T2
*6 : ZENER DIODE MTZJ9.1(C)-T2
*7 : ZENER DIODE MTZJ5.6(A)-T2
BW : BUS WIRE
OPT : NON-MOUNT(OPEN)
0 : 0Ω Resistor



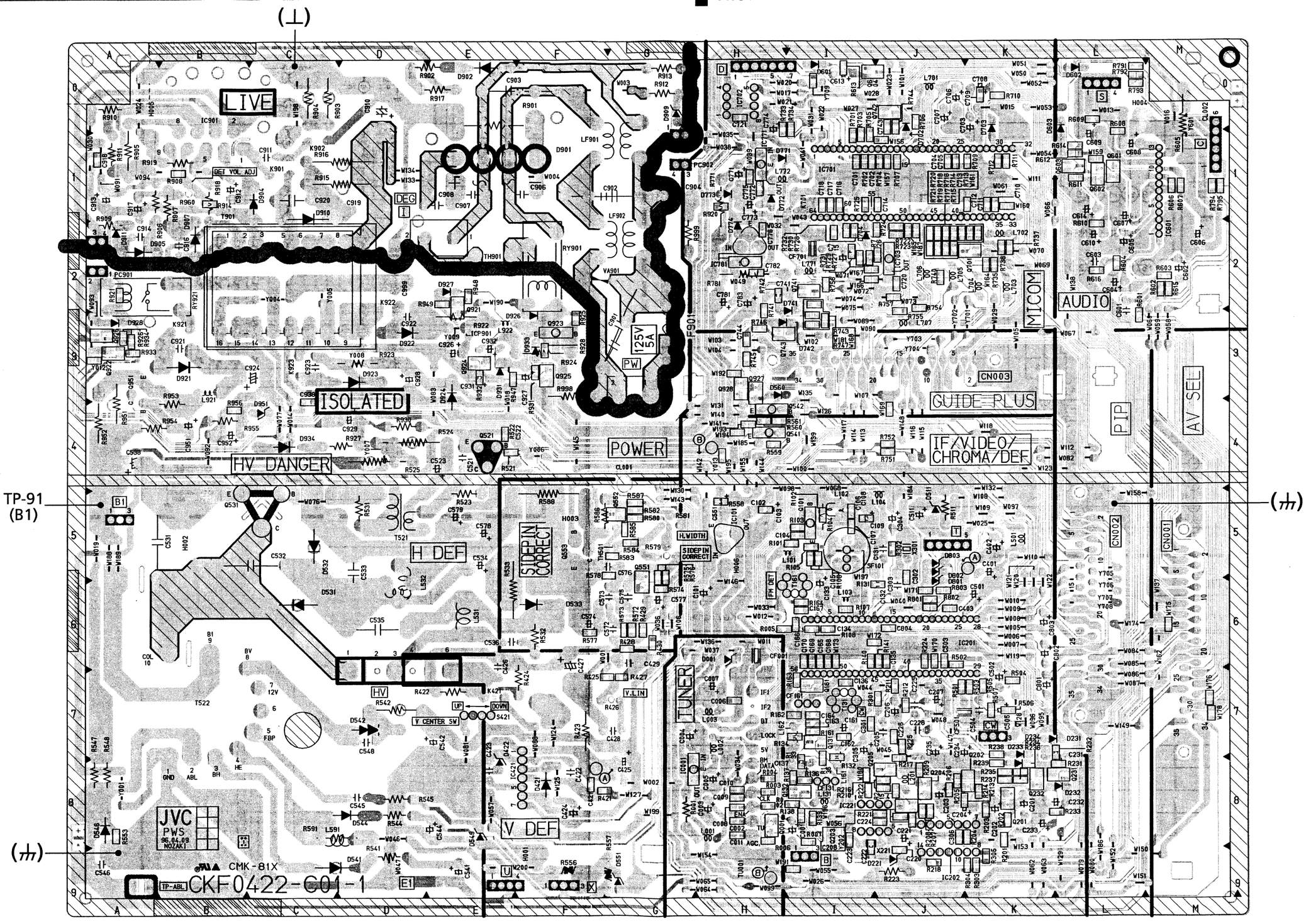
AV-32750 AV-32770	AV-32750 AV-32770

MAIN PWB PATTERN

[SGK-1017A-M2 : AV-32750(US&CA)]
[SGK-1018A-M2 : AV-32770(US)]

(Magnification Rate 95%)

FRONT

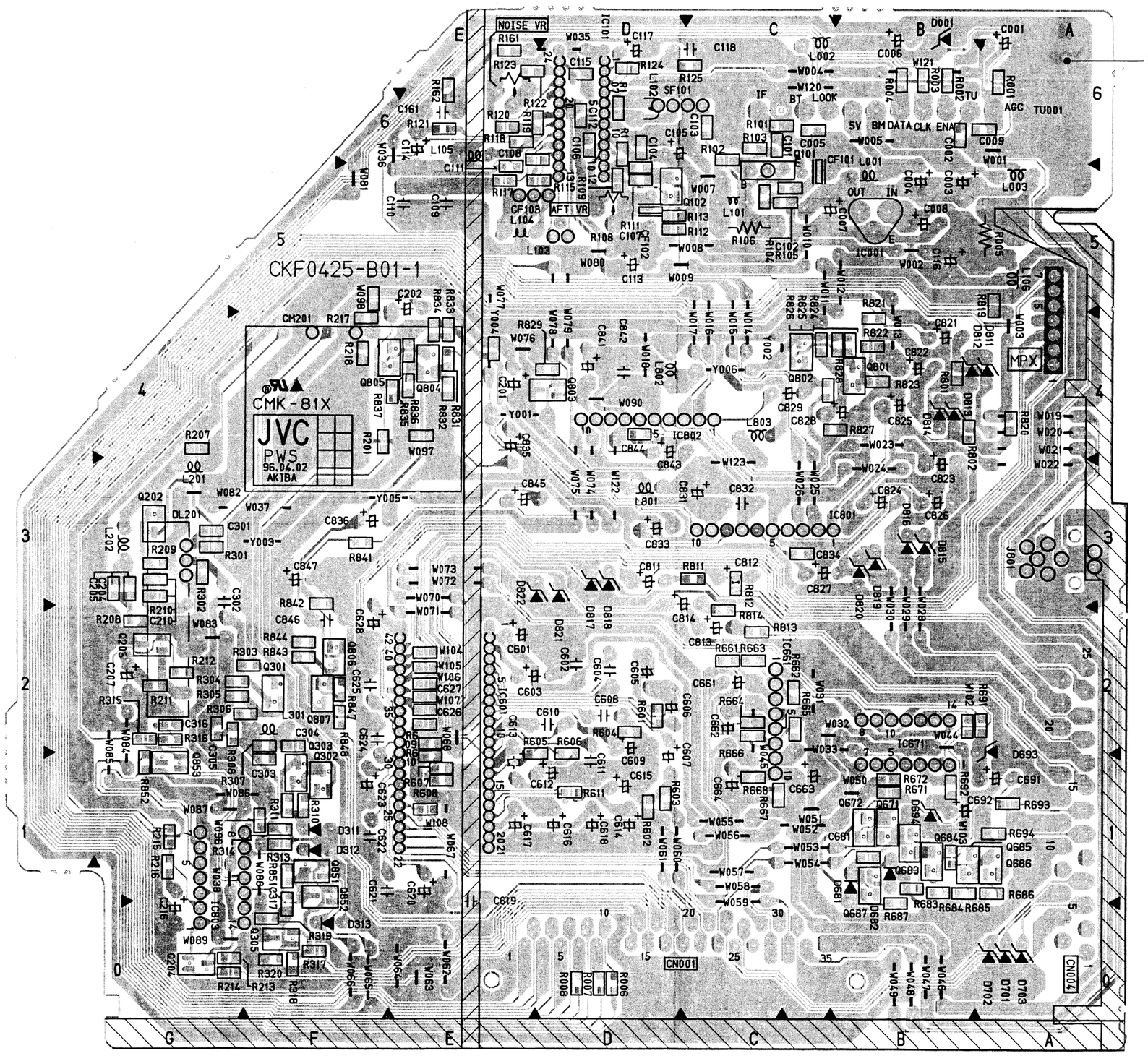


AV-32750	AV-32750
AV-32770	AV-32770

AV SELECTOR PWB PATTERN [SGK-8016A-M2]

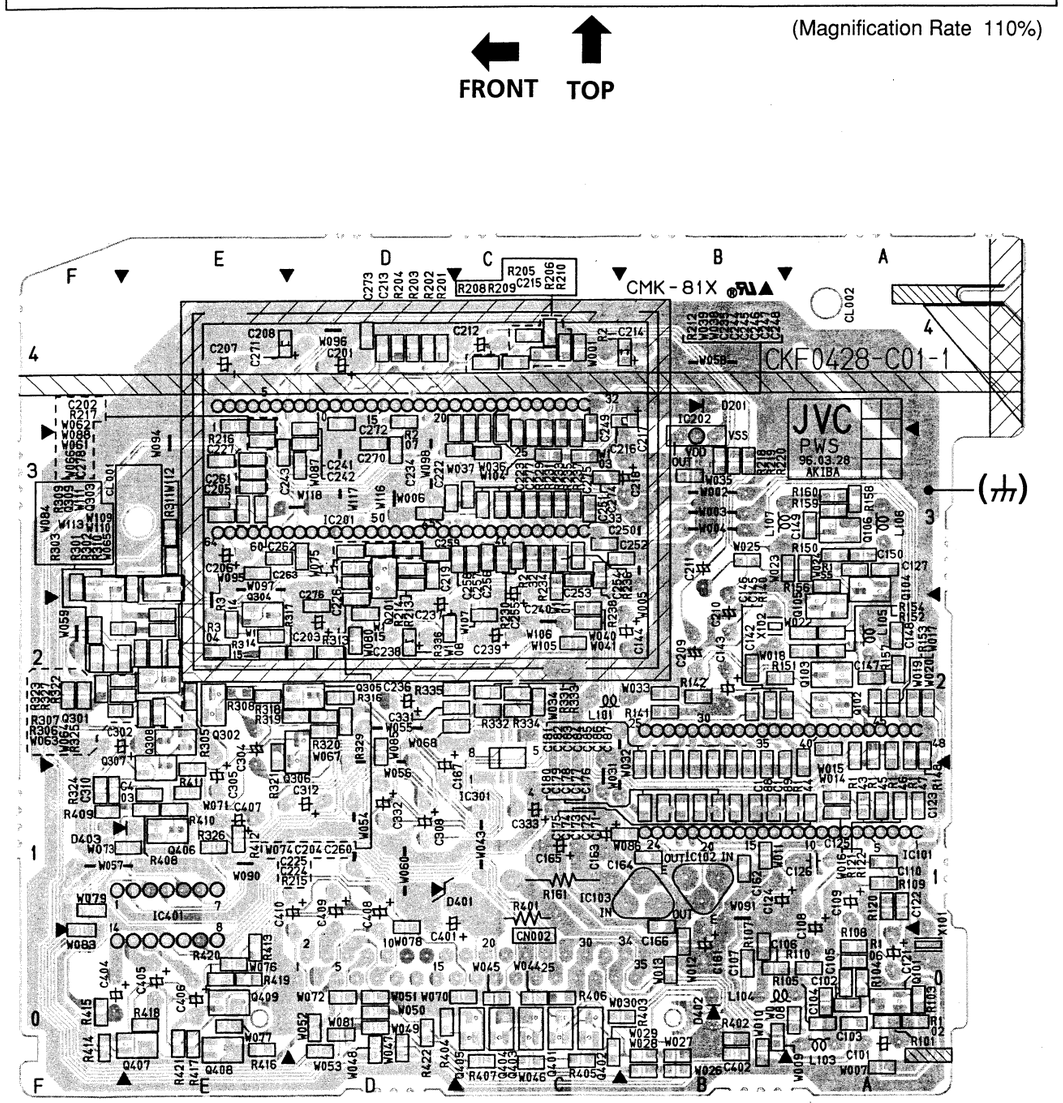
FRONT TOP

(Magnification Rate 135%)



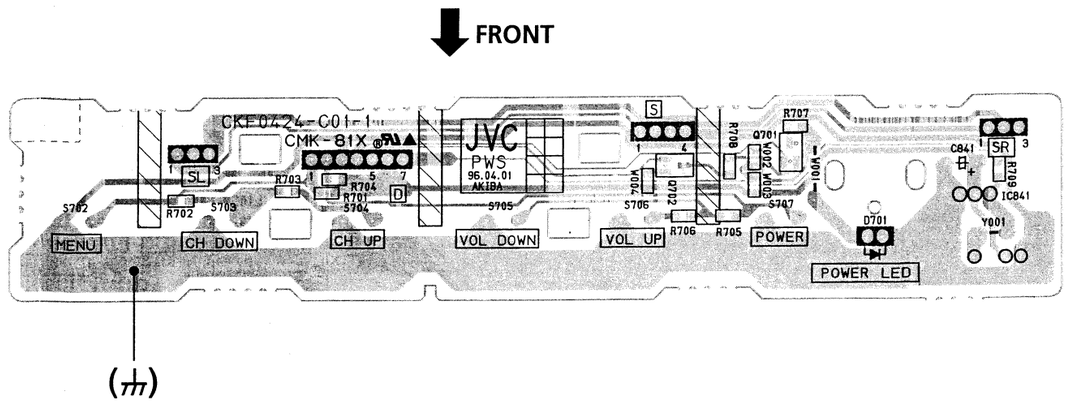
PIP PWB PATTERN [SGK0P002A-M2 : AV-32750(US&CA)] [SGK0P001A-M2 : AV-32770(US)]

(Magnification Rate 110%)



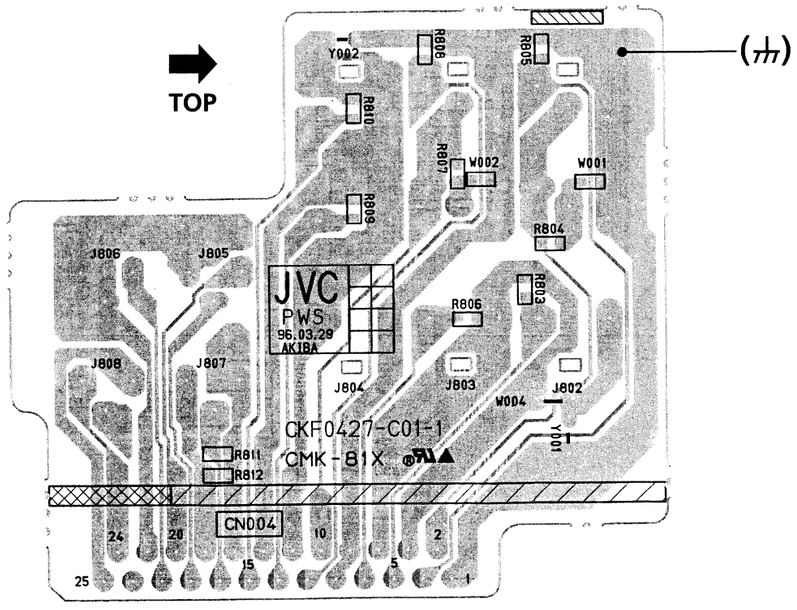
FRONT CONTROL PWB PATTERN [SGK-4011A-M2]

(Magnification Rate 100%)



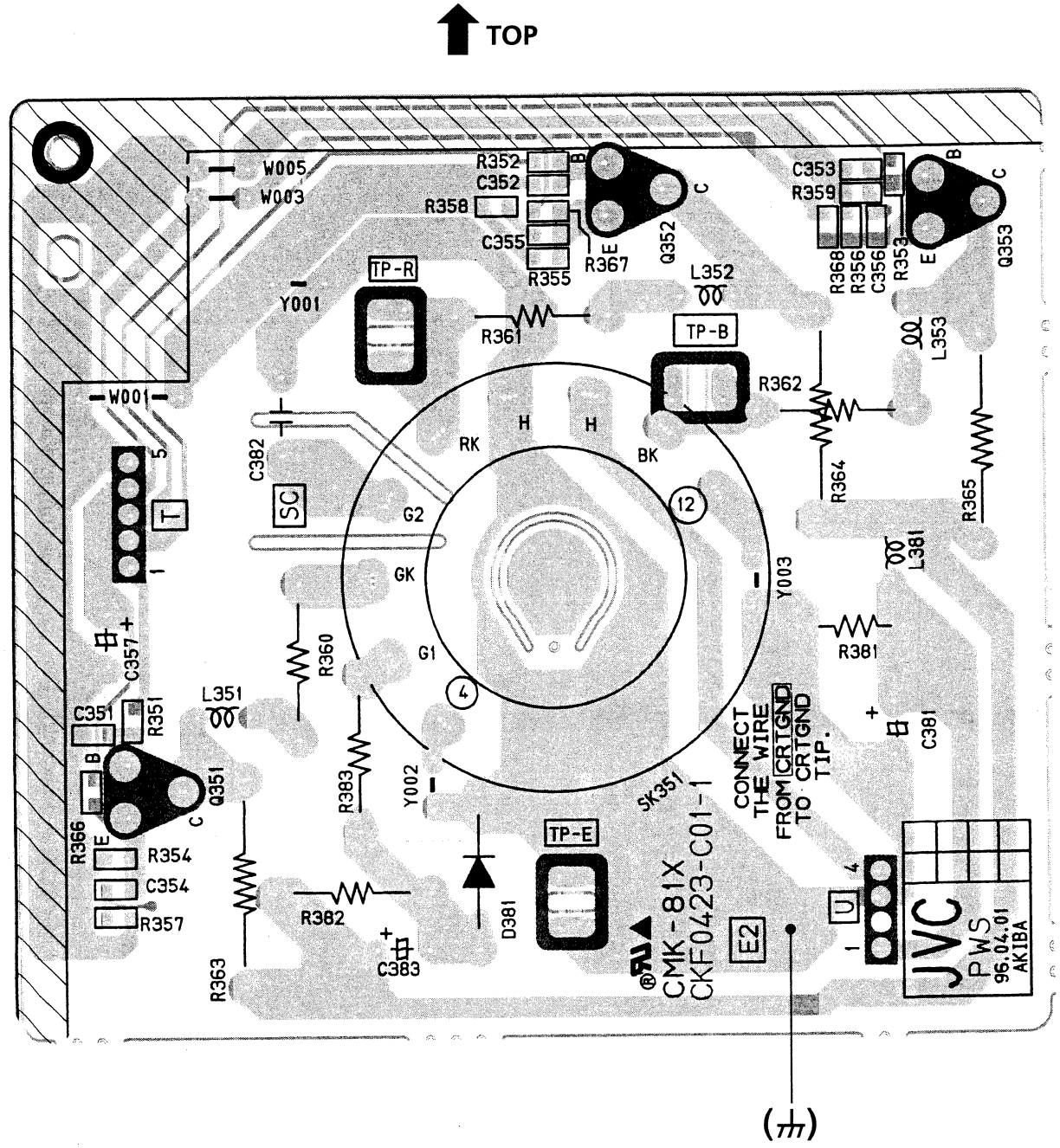
AV JACK PWB PATTERN [SGK0J002A-M2]

(Magnification Rate 120%)



CRT SOCKET PWB PATTERN [SGK-3014A-M2]

(Magnification Rate 160%)



PARTS LIST

CAUTION

- The parts identified by the ⚠ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety .
- The parts not indicated in this Parts List and those which are filled with lines —— in the Parts No. columns will not be supplied .
- P. W. Board Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied .
- As a rule, the resistors and capacitors which are indicated as shown in "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" are not shown in the list of the parts on the board .
  When ordering the service parts, confirm the resistance/rated power, capacitance/rated voltage, and type of the parts, then order by the part No. indicated according to "HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS" .

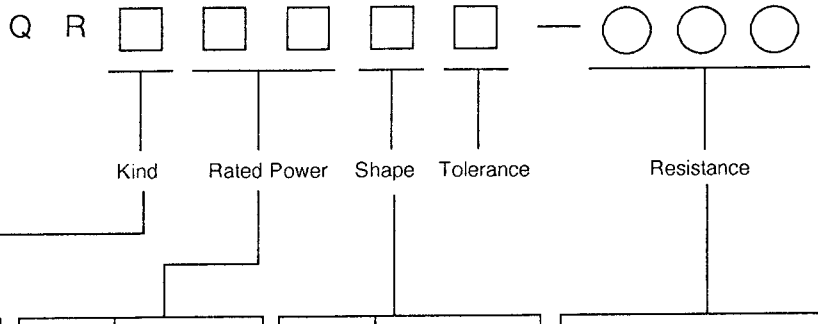
ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
C R	Carbon Resistor	C CAP.	Ceramic Capacitor
F R	Fusible Resistor	E CAP.	Electrolytic Capacitor
P R	Plate Resistor	M CAP.	Mylar Capacitor
V R	Variable Resistor	HV CAP.	High Voltage Capacitor
HV R	High Voltage Resistor	MF CAP.	Metalized Film Capacitor
MF R	Metal Film Resistor	MM CAP.	Metalized Mylar Capacitor
MG R	Metal Glazed Resistor	MP CAP.	Metalized Polystyrol Capacitor
MP R	Metal Plate Resistor	PP CAP.	Polypropylene Capacitor
OM R	Metal Oxide Film Resistor	PS CAP.	Polystyrol Capacitor
CMF R	Coating Metal Film Resistor	TF CAP.	Thin Film Capacitor
UNF R	Non-Flammable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH V R	Chip Variable Resistor	TAN. CAP.	Tantalum Capacitor
CH MG R	Chip Metal Glazed Resistor	CH C CAP.	Chip Ceramic Capacitor
COMP. R	Composition Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

TOLERANCES									
F	G	J	K	M	N	R	H	Z	P
±1%	±2%	±5%	±10%	±20%	±30%	+30% - 10%	+50% - 10%	+80% - 20%	+100% - 0%

HOW TO EXPRESS PARTS NUMBERS OF STANDARD PARTS

■ RESISTOR



Symbol	Part Name
C	COMP.R
D	C R
S	CH MG R

Symbol	Rated Power
0 1	1 w
1 2	1/2 w
1 4	1/4 w
1 6	1/6 w
1 8	1/8 w

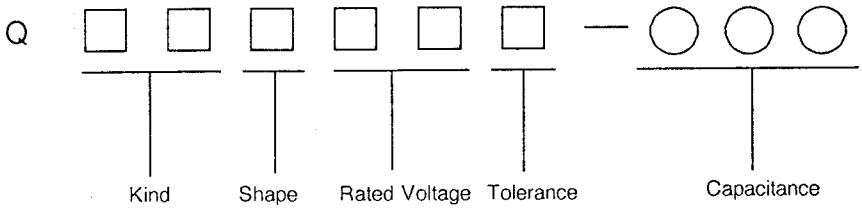
Symbol	Shape
1	Straight lead
8	Chip

Indicate with first two-figure expressed by Ω and following 0.
please note that,in case of resistance less than 10 Ω, a letter "R"will be effective as point.

EX.

2.2 Ω	=		2R2
470 Ω	=	47×10^{1} →	471
150kΩ	=	15×10^{4} →	154

■ CAPACITOR



Symbol	Part Name
CS	C CAP.
CS	CH C CAP.
ET	E CAP.
FM	M CAP.

5Figure / 6Figure	0	1	2
A		10V	100V
C		16V	160V
D			200V
E		25V	250V
H		50V	500V
J	6.3V	63V	
V		35V	

Indicate with first two-figure expressed by pF and following 0.
Please note that,in case of capacitance less than 10 pF a letter "R" will be effective as point.

EX

5pF	=		5R0
1000pF	=	10×10^{2} →	102
47μF	=	47×10^{6} →	476

Symbol	Shape
1	Straight lead
1	Leads in the same direction
8	Chip
A	Leads in the same direction (compact part)

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■ PACKING 50
■ PACKING PARTS LIST
- America Model 50
- Canada Model 50

USING P.W. BOARD & REMOTE CONTROL UNIT

Model / P.W.B ASS'Y	AV-32750(US)	AV-32750(CA)	AV-32770(US)
MAIN P.W.B	SGK-1017A-M2	←	SGK-1018A-M2
CRT SOCKET P.W.B	SGK-3014A-M2	←	←
FRONT CONTROL P.W.B	SGK-4011A-M2	←	←
AV SELECTOR P.W.B	SGK-8016A-M2	←	←
AV JACK P.W.B	SGK0J002A-M2	←	←
PIP P.W.B	SGK0P002A-M2	←	SGK0P001A-M2
REMOTE CONTROL UNIT	RM-C742-1C	←	RM-C732-1A

EXPLODED VIEW PARTS LIST

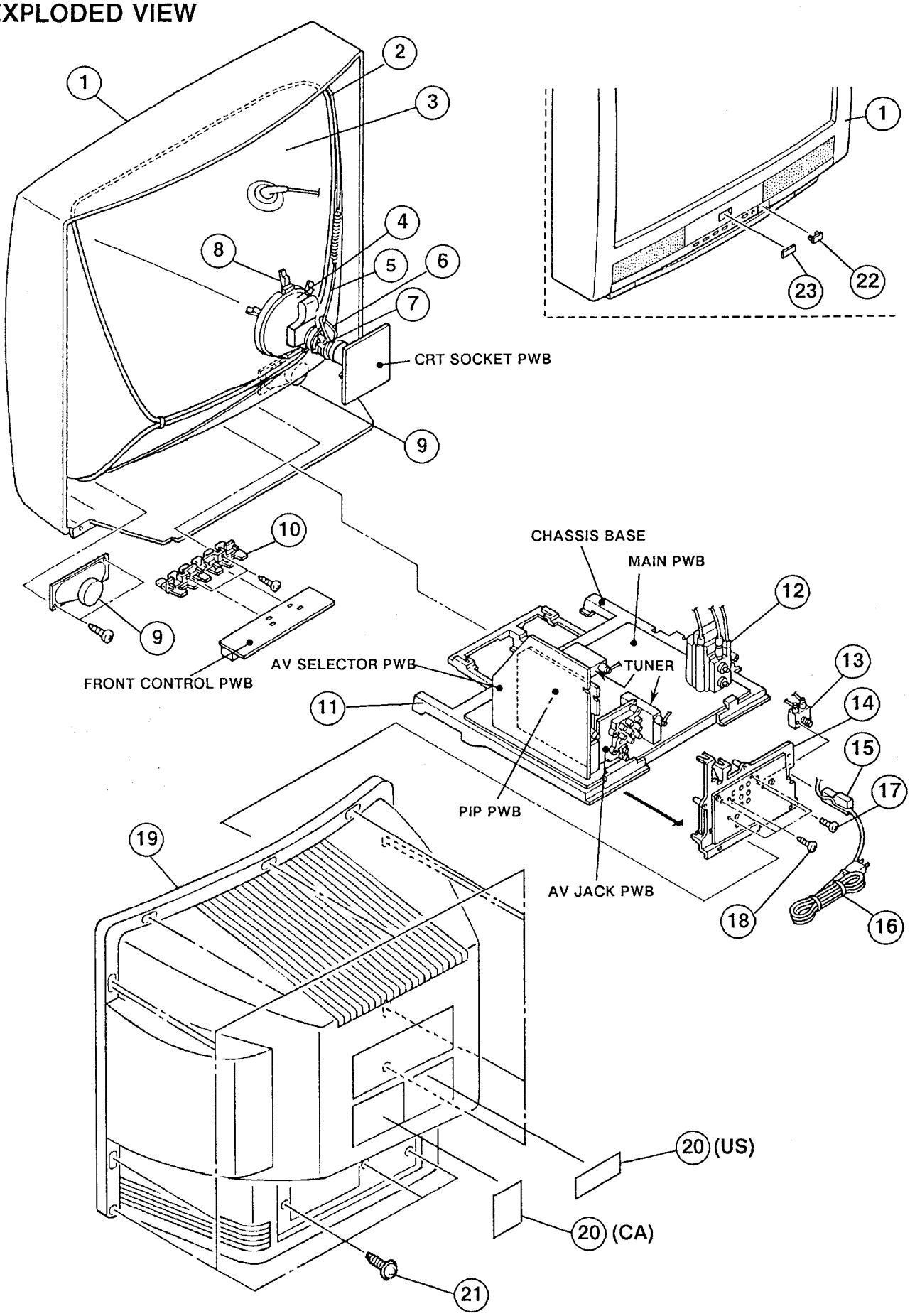
[AV-32750(US&CA)]

⚠	Ref. No.	Part No.	Part Name	Description	Local
⚠	1	CM12618-B0A-MA	F CABINET ASSY		*
⚠	2	CELD028-003J3	DEGAUSSING COIL	L01	*
⚠	3	M80JUA061X	PICTURE TUBE	V01	*
⚠	4	CE20317-00A	DEF YOKE	DY01	*
	5	CHGB0015-0E	BRAIDED ASSY		*
	6	CHGB0016-0D	BRAIDED ASSY		*
	7	A75034-B	P.C.MAGNET		
	8	AAM4003-00A-C	WEDGE ASSY	(×4)	*
⚠	9	CEBSS12D-04KJ2	SPEAKER	(×2)SP01,SP02	*
	10	CM35776-B01-H	PUSH KNOB		*
	11	CM12689-B01-VA	CHASSIS BASE		*
⚠	12	CJ28212-00AJ1	H.V.T.	T1522	*
	13	CEGA005-001	ANT SPLITTER		*
⚠	14	CM23036-B01-VA	TERMINAL BOARD		*
	15	CM48140-A03-A	POWER CORD CLAMP		*
⚠	16	QMPD070-200-E2	POWER CORD		*
	17	SPSP3008Z	SCREW		
	18	SBSB3010Z	TAPPING SCREW	(×4)	*
⚠	19	CM12418-B61-MA	REAR COVER		*
⚠	**20**	**CM23034-001-A**	**RATING LABEL**	**(US)**	*
⚠	**20**	**CM22999-001-A**	**RATING LABEL**	**(CA)**	*
	21	GBSB4016Z	TAPPING SCREW	(×14)	*
	22	CM35983-001-H	REMOCON WINDOW		*
	23	CM43094-006-H	JVC MARK		*

[AV-32770(US)]

⚠	Ref. No.	Part No.	Part Name	Description	Local
⚠	1	CM12618-B0A-MA	F CABINET ASSY		*
⚠	2	CELD028-003J3	DEGAUSSING COIL	L01	*
⚠	3	M80JUA061X	PICTURE TUBE	V01	*
⚠	4	CE20317-00A	DEF YOKE	DY01	
	5	CHGB0015-0E	BRAIDED ASSY		*
	6	CHGB0016-0D	BRAIDED ASSY		*
	7	A75034-B	P.C.MAGNET		
	8	AAM4003-00A-C	WEDGE ASSY	(×4)	*
⚠	9	CEBSS12D-04KJ2	SPEAKER	(×2)SP01,SP02	*
	10	CM35776-B01-H	PUSH KNOB		*
	11	CM12689-B01-VA	CHASSIS BASE		*
⚠	12	CJ28212-00AJ1	H.V.T.	T1522	*
	13	CEGA005-001	ANT SPLITTER		*
⚠	14	CM23036-B01-VA	TERMINAL BOARD		*
	15	CM48140-A03-A	POWER CORD CLAMP		*
⚠	16	QMPD070-200-E2	POWER CORD		*
	17	SPSP3008Z	SCREW		
	18	SBSB3010Z	TAPPING SCREW	(×4)	*
⚠	19	CM12418-B61-MA	REAR COVER		*
⚠	20	CM23034-001-A	RATING LABEL		*
	21	GBSB4016Z	TAPPING SCREW	(×14)	*
	22	CM35983-001-H	REMOCON WINDOW		*
	23	CM43094-006-H	JVC MARK		*

EXPLODED VIEW



PRINTED WIRING BOARD PARTS LIST

AV-32750(US&CA)

MAIN PW BOARD ASS'Y (SGK-1017A-M2)

⚠	Symbol No.	Part No.	Part Name	Description			Local
	VARIABLE RESISTOR						
	R1579	QVPE611-203HZ	V R(SIDEPIN CORRECT)	20kΩ	B		*
	R1581	QVPE611-502HZ	V R(H.WIDTH)	5kΩ	B		*
	RESISTOR						
	R1001	QRD149J-5R6S	C R	5.6 Ω	1/4W	J	*
	R1423	QRX029J-1R2A	MF R	1.2 Ω	2W	J	*
	R1524	QRG029J-182A	OM R	1.8kΩ	2W	J	*
	R1525	QRG029J-152A	OM R	1.5kΩ	2W	J	*
	R1533	QRG039J-103A	OM R	10kΩ	3W	J	*
	R1541	QRD129J-150S	C R	15 Ω	1/2W	J	*
	R1542	QRX019J-1R2S	MF R	1.2 Ω	1W	J	*
	R1544	QRD129J-4R7S	C R	4.7 Ω	1/2W	J	*
⚠	R1556	QRV141F-7501AY	MF R	7.5kΩ	1/4W	F	*
⚠	R1557	QRV141F-2401AY	MF R	2.4kΩ	1/4W	F	*
	R1588	QRG039J-100A	OM R	10 Ω	3W	J	*
	R1605	QRX029J-2R2	MF R	2.2 Ω	2W	J	*
	R1712	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	R1771	QRG019J-820S	OM R	82 Ω	1W	J	*
⚠	R1901	QRF074K-R47	UNF R	0.47 Ω	7W	K	*
	R1903	QRX029J-R33A	MF R	0.33 Ω	2W	J	*
	R1904	QRX029J-R39A	MF R	0.39 Ω	2W	J	*
	R1905	QRG019J-120S	OM R	12 Ω	1W	J	*
	R1906	QRD149J-1R0S	C R	1 Ω	1/4W	J	*
	R1909	QRD149J-222S	C R	2.2kΩ	1/4W	J	*
	R1910	QRD149J-102S	C R	1kΩ	1/4W	J	*
	R1911	QRX129J-R47A	MF R	0.47 Ω	1/2W	J	
	R1924	QRG019J-331S	OM R	330 Ω	1W	J	*
	R1927	QRD149J-3R3S	C R	3.3 Ω	1/4W	J	*
	R1961	**QRX029J-R82A**	MF R	.82Ω	2W	J	*
⚠	R1998	QRZ0111-275U	C R	2.7MΩ	1/2W		*
	CAPACITOR						
	C1006	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1011	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	
	C1102	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1104-05	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1106	NCT03CH-680AY	CHIP CAP.	68pF	1600V	H	*
	C1107	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1131	QFV71HJ-154MZ	TF CAP.	0.15μF	50V	J	*
	C1132	QFN31HK-152ZJ1	M CAP.	1500pF	50V	K	*
	C1134	NCB21HK-102AY	CHIP CAP.	1000pF	50V	K	*
	C1135	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1162	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1163	NCT03CH-220AY	CHIP CAP.	22pF	1600V	H	*
	C1164	NCT03CH-470AY	CHIP CAP.	47pF	1600V	H	*
	C1166	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1168-70	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1205	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
	C1208	NCT03CH-680AY	CHIP CAP.	68pF	1600V	H	*
	C1226	NCT03CH-681AY	CHIP CAP.	680pF	1600V	H	*
	C1228	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
	C1301	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1302	NCT03CH-100AY	CHIP CAP.	10pF	1600V	H	*
	C1303	QFLC1HK-223MZ	M CAP.	0.022μF	50V	K	*
	C1402	QEE61CK-225BZ	TAN.CAP.	2.2μF	16V	K	
	C1403	NCB21HK-102AY	CHIP CAP.	1000pF	50V	K	*
	C1421	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1424	QETC1VM-107Z	E CAP.	100μF	35V	M	*
	C1425	QETC1VM-477Z	E CAP.	470μF	35V	M	*
	C1426	QFLC2AK-563MZ	M CAP.	0.056μF	100V	K	*
	C1428	QFV71HJ-684MZ	TF CAP.	0.68μF	50V	J	*

AV-32750(US&CA)

⚠	Symbol No.	Part No.	Part Name	Description	Local
	CAPACITOR				
	C1429	QFV71HJ-224MZ	TF CAP.	0.22 µF 50V J	*
	C1503	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	*
	C1523	QETC2CM-105Z	E CAP.	1 µF 160V M	*
⚠	C1531	QFZ0117-3501S	MPP CAP.	3500 pF 1.4kVH ±2.5%	*
⚠	C1532	QFZ0117-1202S	MPP CAP.	0.012 µF 1.4kVH ±2.5%	*
⚠	C1533	QFP32GJ-223M	PP CAP.	0.022 µF 400V J	*
	C1534	QEHC2EM-225MZ	E CAP.	2.2 µF 250V M	*
⚠	C1535	QFZ0119-564S	MPP CAP.	0.56 µF 200V ±3%	*
	C1538	QEZ0203-107R	E CAP.	100 µF 160V	
	C1541	QETB2EM-336	E CAP.	33 µF 250V M	*
	C1542	QETB1VM-108	E CAP.	1000 µF 35V M	*
	C1544	QETC1VM-107Z	E CAP.	100 µF 35V M	*
	C1545	QFLC2AJ-393MZ	M CAP.	0.039 µF 100V J	*
	C1546	QFV71HJ-473MZ	TF CAP.	0.047 µF 50V J	*
	C1573	QFLC1HK-683MZ	M CAP.	0.068 µF 50V K	*
	C1574	QETC0JM-477Z	E CAP.	470 µF 6.3V M	*
	C1575	QFLC1HK-683MZ	M CAP.	0.068 µF 50V K	*
	C1577	QETC1VM-476Z	E CAP.	47 µF 35V M	*
	C1578-79	QEM61HK-475MZ	E CAP.	4.7 µF 50V K	
	C1701-02	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	*
	C1704	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	*
	C1705	NCT03CH-181AY	CHIP CAP.	180 pF 1600V H	*
	C1709	NCT03CH-221AY	CHIP CAP.	220 pF 1600V H	*
	C1710-11	NCT03CH-390AY	CHIP CAP.	39 pF 1600V H	*
	C1712	NCT03CH-270AY	CHIP CAP.	27 pF 1600V H	*
	C1713	NCT03CH-150AY	CHIP CAP.	15 pF 1600V H	*
	C1714	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	*
	C1716	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	*
	C1717-18	NCT03CH-330AY	CHIP CAP.	33 pF 1600V H	*
	C1720-21	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	*
	C1741	QFN31HJ-102ZJ1	M CAP.	1000 pF 50V J	*
	C1744	NCT03CH-681AY	CHIP CAP.	680 pF 1600V H	*
	C1772	NCB21HK-103AY	CHIP CAP.	0.01 µF 50V K	*
⚠	C1901	QFZ9040-104N	MF CAP.	0.1 µF AC250V M	*
⚠	C1902	QFZ9040-473N	MF CAP.	0.047 µF AC250V M	*
⚠	C1903	QFZ9040-104N	MF CAP.	0.1 µF AC250V M	*
⚠	C1904	QCZ9052-102A	C CAP.	1000 pF AC125V	*
⚠	C1906	QCZ9033-102A	C CAP.	1000 pF AC250V K	*
⚠	C1907	QCZ9033-102A	C CAP.	1000 pF AC250V K	*
⚠	C1908	QCZ9033-102A	C CAP.	1000 pF AC250V K	*
⚠	C1910	QEZ0169-477	E CAP.	470 µF 200V M	*
	C1911	QCZ0116-152AZ	C CAP.	1500 pF 1000V K	*
	C1917	QETC2AM-106Z	E CAP.	10 µF 100V M	*
	C1918	NCB21HK-102AY	CHIP CAP.	1000 pF 50V K	*
	C1921-22	QCZ0132-152AZ	C CAP.	1500 pF 500V K	*
	C1924	QEZ0203-107R	E CAP.	100 µF 160V	
	C1929	QETC2CM-106Z	E CAP.	10 µF 160V M	*
	C1938	NCT03CH-471AY	CHIP CAP.	470 pF 1600V H	*
⚠	C1999	QCZ9052-222A	C CAP.	2200 pF AC125V	*
	TRANSFORMER				
	T1131	CELT001-209J3	C.WAVE TRANSF.		*
	T1161	CELT003-109J3	S.I.F.TRANSF.		*
	T1521	CE42034-002	H.DRIVE TRANSF.		*
⚠	T1522	CJ28212-00AJ1	H.V.TRANSF.		*
⚠	T1901	CETS063-001J8	S M T		*
	COIL				
	L1001	CELP059-101Z	PEAKING COIL	100 µH	*
	L1102	CELP041-R22	PEAKING COIL	0.22 µH	*
	L1103	CELP041-R68	PEAKING COIL	0.68 µH	*
	L1104	CELP059-680Z	PEAKING COIL	68 µH	*
	L1131	CELP059-220Z	PEAKING COIL	22 µH	*
	L1161	CELP059-680Z	PEAKING COIL	68 µH	*

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⚠	Symbol No.	Part No.	Part Name	Description	Local
	C O I L				
	L1162	CELP059-220Z	PEAKING COIL	22 μH	*
	L1201	CELP059-270Z	PEAKING COIL	27 μH	*
⚠	L1531	CE41663-00B	LINEARITY COIL		*
	L1532	CELC052-821	CHOKE COIL		*
⚠	L1591	CELC901-046J6	HEATER CHOKE		*
	L1701	CELP059-5R6Z	PEAKING COIL	5.6 μH	*
	L1702	CELP058-100Z	PEAKING COIL	10 μH	*
	L1771	CELP059-5R6Z	PEAKING COIL	5.6 μH	*
	L1921	CELC058-820Z	CHOKE COIL		*
	L1922	CELC058-220Z	CHOKE COIL		*
	D I O D E				
	D1001	MTZJ36(A)-T2	ZENER DIODE		*
	D1221	MTZJ5.1(B)-T2	ZENER DIODE		*
	D1231-34	1SS133-T2	SI.DIODE		*
	D1421	1N4003-T2	SI.DIODE		*
	D1422	MTZJ75-T2	ZENER DIODE		*
	D1511	MTZJ3.3(A)-T2	ZENER DIODE		*
⚠	D1531	RH3G-C1	SI.DIODE		
⚠	D1532	RU3AM-LFC4	SI.DIODE		
	D1533	RGP10J(C1)-T3	SI.DIODE		*
	D1541	RH1S-T3	SI.DIODE		
	D1542	RGP10J(C1)-T3	SI.DIODE		*
	D1544	1SS81-T2	SI.DIODE		*
	D1546	1SR124-400A-T2	SI.DIODE		*
	D1549	MTZJ9.1(B)-T2	ZENER DIODE		*
⚠	D1551	MTZJ7.5S-T2	ZENER DIODE		*
	D1560	1SS133-T2	SI.DIODE		*
	D1601-03	1SS133-T2	SI.DIODE		*
	D1703-04	1SS133-T2	SI.DIODE		*
	D1741-42	1SS133-T2	SI.DIODE		*
	D1771-73	1SS133-T2	SI.DIODE		*
⚠	D1901	D3SBA60-C1	BRIDGE DIODE		*
⚠	D1902	RGP10J(C1)-T3	SI.DIODE		*
	D1904	RMPG06D-T2	SI.DIODE		
	D1905	1SR124-400A-T2	SI.DIODE		*
	D1907	1SR124-400A-T2	SI.DIODE		*
	D1909	MTZJ15(A)-T2	ZENER DIODE		*
	D1911	1SS133-T2	SI.DIODE		*
	D1921	RU30A-C1	SI.DIODE		
	D1922	RU3YX-LFC4	SI.DIODE		
	D1923	EGP10D-C1	SI.DIODE		
	D1924	1SR35-100A-T2	SI.DIODE		*
	D1926-28	1SS133-T2	SI.DIODE		*
	D1931	1SS133-T2	SI.DIODE		*
	D1933	1SS133-T2	SI.DIODE		*
	D1934	RGP10J(C1)-T3	SI.DIODE		*
	T R A N S I S T O R				
	Q1101	2SC5083(L-P)-T	SI.TRANSISTOR		*
	Q1131-32	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1161	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1203	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1204-05	2SA1037K(QR)-X	SI.TRANSISTOR		*
	Q1231-32	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1521	2SC4212-C1	SI.TRANSISTOR		
⚠	Q1531	2SD2539-LB	SI.TRANSISTOR	H.OUT	*
	Q1541	2SA933S(QR)-T	SI.TRANSISTOR		*
⚠	Q1542	2SC2785(JH)-T	SI.TRANSISTOR		*
	Q1551	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1552	2SA1037K(QR)-X	SI.TRANSISTOR		*
	Q1553	2SD1408(OY)-LB	SI.TRANSISTOR		
	Q1601	DTC124EKA-X	DIGI.TRANSISTOR		*
	Q1602	2SC2412K(QR)-X	SI.TRANSISTOR		*

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⚠	Symbol No.	Part No.	Part Name	Description	Local
	TRANSISTOR				
	Q1603	DTC124EKA-X	DIGI.TRANSISTOR		*
	Q1604	2SA1037K(QR)-X	SI.TRANSISTOR		*
	Q1701	DTC124EKA-X	DIGI.TRANSISTOR		*
	Q1741	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1742	DTC124EKA-X	DIGI.TRANSISTOR		*
	Q1743	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1921	2SC2412K(QR)-X	SI.TRANSISTOR		*
⚠	Q1922	2SD1383K-X	SI.TRANSISTOR		
	Q1923	2SA1020(Y)-T	SI.TRANSISTOR		
	Q1924	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1925-28	DTC124EKA-X	DIGI.TRANSISTOR		*
	IC				
	IC1001	KIA78L05BP-Y	I.C.(MONO-ANA)		*
	IC1101	KIA7809PI	I.C.(MONO-ANA)		*
	IC1201	TA1242N	I.C.(MONO-ANA)		
⚠	IC1421	LA7832	I C		
⚠	IC1601	LA4485	I.C.(MONO-ANA)		
	IC1701	MN1874876J7R3	I C		
	IC1702	AT24C04-27750U	I.C.(EP-ROM)	(SERVICE)	
	IC1703	MN1280-Q	I.C.(DIGI-MOS)		*
	IC1771	KIA78L05BP-Y	I.C.(MONO-ANA)		*
⚠	IC1901	STR-S5708	I.C.(HYBRID)		
	OTHERS				
		CM47653-001	PCB HOLDER		
	CF1001	FTP47.25MF	CERAMIC FILTER		*
	CF1131	CE41505-001	CERAMIC FILTER		
	CF1161	SFSH4.5MCB	CERAMIC FILTER		*
	CF1501	CSB503F30-T2	CER.RESONATOR		*
	CF1701	FCR12.0M2S	CER.RESONATOR		*
⚠	F1901	QMF0007-5R0J1	FUSE	5.0A	*
	K1421	CE42050-001Z	CORE		
	K1902	CE42050-001Z	CORE		
	K1921	CE41433-001Z	BEADS CORE		
	K1922	CE42050-001Z	CORE		
⚠	LF1901	CELF001-001J1	LINE FILTER		*
⚠	LF1902	CE42335-001J1	LINE FILTER		*
⚠	PC1901	TLP621(GB)	I.C.(PH.COUPLER)		*
⚠	PC1902	TLP621(GB)	I.C.(PH.COUPLER)		*
⚠	RY1901	CESK028-001	RELAY		*
⚠	RY1921	CESK028-001	RELAY		*
	S1421	QSL6A13-C01	LEVER SWITCH	V.CENTER SW	*
	SF1101	CE42604-201	SAW FILTER		
	TH1501	CEKP004-002	P.THERMISTOR		
⚠	TH1901	CEKP007-001	P.THERMISTOR		*
⚠	TU1001	CEEM270-A01	TUNER		*
⚠	VA1901	ERZV10V361CS	VARISTOR		*
	X1301	CE41651-001Z	CRYSTAL		*

CRT SOCKET PW BOARD ASS'Y (SGK-3014A-M2)

⚠ Symbol No.	Part No.	Part Name	Description			Local
RESISTOR						
R3360-62	QRZ0111-152	C R	1.5kΩ	1/2W		*
R3363-65	QRG029J-103	OM R	10kΩ	2W	J	*
CAPACITOR						
C3354-55	NCS21HJ-331AY	CER.CAP.-M	330pF	50V	J	*
C3356	NCS21HJ-391AY	CER.CAP.-M	330pF	50V	J	*
⚠ C3382	QCZ0121-102A	C CAP.	1000pF	3kV	Z	*
COIL						
L3381	CELP055-101Z	PEAKING COIL	100μH			*
TRANSISTOR						
Q3351-53	2SC4544-C1	SI.TRANSISTOR				*
OTHERS						
⚠ SK3351	CE42535-001J1	C.R.T.SOCKET				*

FRONT CONTROL PW BOARD ASS'Y (SGK-4011A-M2)

⚠ Symbol No.	Part No.	Part Name	Description	Local
DIODE				
D4701	GL2PR6	L.E.D.(RED)		*
TRANSISTOR				
Q4701-02	DTA124EKA-X	DIGI.TRANSISTOR		*
IC				
IC4841	HC-337MN	IFR DETECT UNIT		*
OTHERS				
	CM46978-A01-H	L.E.D.HOLDER		*
S4702	QSP1A11-C19Z	PUSH SWITCH	MENU	*
S4703	QSP1A11-C19Z	PUSH SWITCH	CH -	*
S4704	QSP1A11-C19Z	PUSH SWITCH	CH +	*
S4705	QSP1A11-C19Z	PUSH SWITCH	VOL -	*
S4706	QSP1A11-C19Z	PUSH SWITCH	VOL +	*
S4707	QSP1A11-C19Z	PUSH SWITCH	POWER	*

AV SELECTOR PW BOARD ASS'Y (SGK-8016A-M2)

⚠ Symbol No.	Part No.	Part Name	Description			Local
VARIABLE RESISTOR						
R8123	QVPA603-473AZ	V R(NOISE VR)	47kΩ B			
RESISTOR						
R8005	QRD149J-5R6S	C R	5.6 Ω	1/4W	J	*
R8109	NRVA02D-2200NY	CHIP MF R	220 Ω	1/10W	F	
R8607	NRVA02D-1502AY	MF R	15kΩ	1/10W	F	*
R8609	NRVA02D-1501AY	MF R	1.5kΩ	1/10W	F	*

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⚠ Symbol No.	Part No.	Part Name	Description			Local
C A P A C I T O R						
C8005	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	K	*
C8101-03	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	K	*
C8104	NCB21HK-222AY	CHIP CAP.	2200 p F	50V	K	*
C8106	NCB21HK-222AY	CHIP CAP.	2200 p F	50V	K	*
C8107	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	K	*
C8108	NCS21HJ-101AY	CHIP CAP.	100 p F	50V	J	*
C8109-10	QFV71HJ-224MZ	TF CAP.	0.22 µ F	50V	J	*
C8112	NCB21HK-222AY	CHIP CAP.	2200 p F	50V	K	*
C8115	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	K	*
C8118	QFV71HJ-474MZ	TF CAP.	0.47 µ F	50V	J	*
C8161	QFLC1HK-104MZ	M CAP.	0.1 µ F	50V	K	*
C8205	NCT03CH-330AY	CHIP CAP.	33 p F	1600V	H	*
C8302	QFLC1HK-103MZ	M CAP.	0.01 µ F	50V	K	*
C8303	NCT03CH-680AY	CHIP CAP.	68 p F	1600V	H	*
C8304	NCT03CH-271AY	CHIP CAP.	270 p F	1600V	H	*
C8305	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	K	*
C8316	NCB21HK-103AY	CHIP CAP.	0.01 µ F	50V	K	*
C8317	NCT03CH-680AY	CHIP CAP.	68 p F	1600V	H	*
C8602	QFLC1HK-103MZ	M CAP.	0.01 µ F	50V	K	*
C8604	QFV71HJ-104MZ	TF CAP.	0.1 µ F	50V	J	*
C8605	QEN61HM-475Z	BP E CAP.	4.7 µ F	50V	M	*
C8606	QEN61HM-105Z	BP E CAP.	1 µ F	50V	M	*
C8608	QFLC1HK-473MZ	M CAP.	0.047 µ F	50V	K	*
C8610-11	QFV71HJ-104MZ	TF CAP.	0.1 µ F	50V	J	*
C8613	QEE61CK-335BZ	TAN.CAP.	3.3 µ F	16V	K	
C8614	QEE61CK-106BZ	TAN.CAP.	10 µ F	16V	K	
C8619	QFLC1HK-273MZ	M CAP.	0.027 µ F	50V	K	*
C8621	QFN31HK-222ZJ1	M CAP.	2200 p F	50V	K	*
C8622	QFV71HJ-104MZ	TF CAP.	0.1 µ F	50V	J	*
C8624	QFN31HK-222ZJ1	M CAP.	2200 p F	50V	K	*
C8625	QFV71HJ-104MZ	TF CAP.	0.1 µ F	50V	J	*
C8661-62	QEN61HM-105Z	BP E CAP.	1 µ F	50V	M	*
C8829	QEN61HM-106Z	BP E CAP.	10 µ F	50V	M	*
C8832	QFLC1HK-103MZ	M CAP.	0.01 µ F	50V	K	*
C8842	QFLC1HK-103MZ	M CAP.	0.01 µ F	50V	K	*
C8846	QFLC1HK-103MZ	M CAP.	0.01 µ F	50V	K	*
C O I L						
L8003	CELP059-150Z	PEAKING COIL	15 µ H			*
L8101	CELP041-R22	PEAKING COIL	0.22 µ H			*
L8103	CE42452-003	COIL				*
L8104	CELP055-220Z	PEAKING COIL	22 µ H			*
L8106	CELP059-5R6Z	PEAKING COIL	5.6 µ H			*
L8202	CELP059-220Z	PEAKING COIL	22 µ H			*
L8301	CELP059-150Z	PEAKING COIL	15 µ H			*
L8801-02	CELP059-5R6Z	PEAKING COIL	5.6 µ H			*
D I O D E						
D8311-13	1SS133-T2	SI.DIODE				*
D8693-94	MTZJ9.1(C)-T2	ZENER DIODE				*
D8701-03	MTZJ5.6(B)-T2	ZENER DIODE				*
D8811-22	MTZJ9.1(C)-T2	ZENER DIODE				*
T R A N S I S T O R						
Q8101	2SC5083(L-P)-T	SI.TRANSISTOR				*
Q8102	2SA1037K(QR)-X	SI.TRANSISTOR				*
Q8202	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q8203	2SA1037K(QR)-X	SI.TRANSISTOR				*
Q8204	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q8301-03	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q8305	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q8671-72	DTC124EKA-X	DIGI.TRANSISTOR				*
Q8683-86	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q8801-02	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q8803	2SA1037K(QR)-X	SI.TRANSISTOR				*

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⚠ Symbol No.	Part No.	Part Name	Description	Local
TRANSISTOR				
Q8804-07	2SC2412K(QR)-X	SI.TRANSISTOR		*
Q8851-53	DTC124EKA-X	DIGI.TRANSISTOR		*
IC				
IC8001	KIA7805PI	I.C.(MONO-ANA)		*
IC8101	LA7583	I.C.(MONO-ANA)		
IC8601	UPC1851CU-02	I.C.(MONO-ANA)		
IC8661	BA15218N	I.C.(MONO-ANA)		*
IC8671	TC4066BP	I.C.(DIGI-MOS)		*
IC8801	BA7644AN	OP AMP IC		
IC8802	BA7644AN	I.C.(MONO-ANA)		
IC8803	TC4066BP	I.C.(DIGI-MOS)		*
OTHERS				
CF8101	FTP47.25MF	CERAMIC FILTER		*
CF8102	FCR5.71M2SF3	CER.RESONATOR		*
CF8103	CE41505-001	CERAMIC FILTER		
CM8201	CE42599-001	COMB FILTER MOD		*
CN8004	CHA401N-25P-J	HQF CONNECTOR		*
DL8201	CE42464-001	BPF&DL MODULE		*
J8801	QMCC004-C01	MINI DIN JACK		
SF8101	CE42589-201	SAW FILTER		
⚠ TU8001	CEEM270-A01	TUNER		*

AV JACK PW BOARD ASS'Y (SGK0J002A-M2)

⚠ Symbol No.	Part No.	Part Name	Description	Local
OTHERS				
CN0004	CHA401N-25R-J	HQF CONNECTOR		*
J0802-03	CEMN073-001	PIN JACK		*
J0804	CEMN090-003	PIN JACK		*
J0805-06	AX49607-020	MINI JACK		*

PIP PW BOARD ASS'Y (SGK0P002A-M2)

⚠ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
R0161	QRG019J-390S	OM R	39 Ω 1W J	*
R0401	QRD149J-150S	C R	15 Ω 1/4W J	*
CAPACITOR				
C0101	QEN61CM-106Z	BP E CAP.	10 μF 16V M	*
C0102	NCT03CH-150AY	CHIP CAP.	15 p F 1600V H	*
C0103	NCT03CH-101AY	CHIP CAP.	100 p F 1600V H	*
C0104	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	*
C0110	NCT03CH-561AY	CHIP CAP.	560 p F 1600V H	*
C0122	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	*
C0123	NCB21HK-152AY	CHIP CAP.	1500 p F 50V K	*
C0125	NCF21HZ-103AY	CHIP C CAP.	0.01 μF 50V Z	*
C0126	QFV71HJ-104MZ	TF CAP.	0.1 μF 50V J	*
C0127	NCT03CH-220AY	CHIP CAP.	22 p F 1600V H	*

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⚠ Symbol No.	Part No.	Part Name	Description			Local
CAPACITOR						
C0142	NCT03CH-150AY	CHIP CAP.	15 p F	1600V	H	*
C0143	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F	50V	Z	*
C0145	NCB21HK-103AY	CHIP CAP.	0.01 μ F	50V	K	*
C0149	NCT03CH-101AY	CHIP CAP.	100 p F	1600V	H	*
C0150	NCT03CH-470AY	CHIP CAP.	47 p F	1600V	H	*
C0162	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F	50V	Z	*
C0164	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F	50V	Z	*
C0166	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F	50V	Z	*
C0171-89	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F	50V	Z	*
C0202	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F	50V	Z	*
C0204-05	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F	50V	Z	*
C0209-11	QEN61HM-475Z	BP E CAP.	4.7 μ F	50V	M	*
C0213	NCB21HK-103AY	CHIP CAP.	0.01 μ F	50V	K	*
C0215	NCB21HK-103AY	CHIP CAP.	0.01 μ F	50V	K	*
C0216	NCT03CH-102AY	CHIP CAP.	1000 p F	1600V	H	*
C0222-25	NCT03CH-470AY	CHIP CAP.	47 p F	1600V	H	*
C0227	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F	50V	Z	*
C0241-51	NCT03CH-101AY	CHIP CAP.	100 p F	1600V	H	*
C0252-60	NCT03CH-471AY	CHIP CAP.	470 p F	1600V	H	*
C0261-62	NCT03CH-681AY	CHIP CAP.	680 p F	1600V	H	*
C0263	NCT03CH-101AY	CHIP CAP.	100 p F	1600V	H	*
C0270-78	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F	50V	Z	*
C0304	QEN61HM-475Z	BP E CAP.	4.7 μ F	50V	M	*
C0310	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F	50V	Z	*
C0331	NCF21HZ-103AY	CHIP C CAP.	0.01 μ F	50V	Z	*
COIL						
L0101	CELP059-100Z	PEAKING COIL	10 μ H			*
L0103	CELP059-150Z	PEAKING COIL	15 μ H			*
L0106	CELP059-820Z	PEAKING COIL	82 μ H			*
L0107	CELP059-150Z	PEAKING COIL	15 μ H			*
DIODE						
D0201	1SS133-T2	SI.DIODE				*
D0403	1SS133-T2	SI.DIODE				*
TRANSISTOR						
Q0101-05	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q0106	2SA1037K(QR)-X	SI.TRANSISTOR				*
Q0201	2SA1037K(QR)-X	SI.TRANSISTOR				*
Q0301-09	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q0402	2SA1037K(QR)-X	SI.TRANSISTOR				*
Q0403-09	2SC2412K(QR)-X	SI.TRANSISTOR				*
IC						
IC0101	LA7403	I C				
IC0102	KIA7809PI	I.C.(MONO-ANA)				*
IC0103	KIA7805PI	I.C.(MONO-ANA)				*
IC0201	LC74411	I C				
IC0202	MN1381-Q-Y	I.C.(MONO-ANA)				
IC0301	BA7655AF-X	I.C.(MONO-ANA)				*
IC0401	AN5860	I.C.(MONO-ANA)				
OTHERS						
X0101	CSB503F30-T2	CER.RESONATOR				*
X0102	CE41651-001Z	CRYSTAL				*

REMOTE CONTROL UNIT PARTS LIST (RM-C742-1C)

⚠ Ref.No.	Part No.	Part Name	Description	Local
	2AA015250	BATTERY COVER		*

PRINTED WIRING BOARD PARTS LIST

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MAIN PW BOARD ASS'Y (SGK-1018A-M2)

⚠	Symbol No.	Part No.	Part Name	Description			Local
	V A R I A B L E R E S I S T O R						
	R1579	QVPE611-203HZ	V R(SIDEPIN CORRECT)	20kΩ	B		*
	R1581	QVPE611-502HZ	V R(H.WIDTH)	5kΩ	B		*
	R E S I S T O R						
	R1001	QRD149J-5R6S	C R	5.6 Ω	1/4W	J	*
	R1423	QRX029J-1R2A	MF R	1.2 Ω	2W	J	*
	R1524	QRG029J-182A	OM R	1.8kΩ	2W	J	*
	R1525	QRG029J-152A	OM R	1.5kΩ	2W	J	*
	R1533	QRG039J-103A	OM R	10kΩ	3W	J	*
	R1541	QRD129J-150S	C R	15 Ω	1/2W	J	*
	R1542	QRX019J-1R2S	MF R	1.2 Ω	1W	J	*
	R1544	QRD129J-4R7S	C R	4.7 Ω	1/2W	J	*
⚠	R1556	QRV141F-7501AY	MF R	7.5kΩ	1/4W	F	*
⚠	R1557	QRV141F-2401AY	MF R	2.4kΩ	1/4W	F	*
	R1588	QRG039J-100A	OM R	10 Ω	3W	J	*
	R1605	QRX029J-2R2	MF R	2.2 Ω	2W	J	*
	R1712	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	R1771	QRG019J-820S	OM R	82 Ω	1W	J	*
⚠	R1901	QRF074K-R47	UNF R	0.47 Ω	7W	K	*
	R1903	QRX029J-R33A	MF R	0.33 Ω	2W	J	*
	R1904	QRX029J-R39A	MF R	0.39 Ω	2W	J	*
	R1905	QRG019J-120S	OM R	12 Ω	1W	J	*
	R1906	QRD149J-1R0S	C R	1 Ω	1/4W	J	*
	R1909	QRD149J-222S	C R	2.2kΩ	1/4W	J	*
	R1910	QRD149J-102S	C R	1kΩ	1/4W	J	*
	R1911	QRX129J-R47A	MF R	0.47 Ω	1/2W	J	
	R1924	QRG019J-331S	OM R	330 Ω	1W	J	*
	R1927	QRD149J-3R3S	C R	3.3 Ω	1/4W	J	*
	R1961	QRX029J-R82A	MF R	.82Ω	2W	J	*
⚠	R1998	QRZ0111-275U	C R	2.7MΩ	1/2W		*
	C A P A C I T O R						
	C1006	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1011	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1102	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1104-05	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1106	NCT03CH-680AY	CHIP CAP.	68 pF	1600V	H	*
	C1107	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1131	QFV71HJ-154MZ	TF CAP.	0.15μF	50V	J	*
	C1132	QFN31HK-152ZJ1	M CAP.	1500 pF	50V	K	*
	C1134	NCB21HK-102AY	CHIP CAP.	1000 pF	50V	K	*
	C1135	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1162	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1163	NCT03CH-220AY	CHIP CAP.	22 pF	1600V	H	*
	C1164	NCT03CH-470AY	CHIP CAP.	47 pF	1600V	H	*
	C1166	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1168-70	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1201	QEN61HM-335Z	BP E CAP.	3.3μF	50V	M	*
	C1205	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
	C1208	NCT03CH-680AY	CHIP CAP.	68 pF	1600V	H	*
	C1226	NCT03CH-681AY	CHIP CAP.	680 pF	1600V	H	*
	C1228	QFV71HJ-104MZ	TF CAP.	0.1μF	50V	J	*
	C1301	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1302	NCT03CH-100AY	CHIP CAP.	10 pF	1600V	H	*
	C1303	QFLC1HK-223MZ	M CAP.	0.022μF	50V	K	*
	C1306	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1402	QEE61CK-225BZ	TAN.CAP.	2.2μF	16V	K	
	C1403	NCB21HK-102AY	CHIP CAP.	1000 pF	50V	K	*
	C1421	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*
	C1424	QETC1VM-107Z	E CAP.	100μF	35V	M	*
	C1425	QETC1VM-477Z	E CAP.	470μF	35V	M	*

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⚠	Symbol No.	Part No.	Part Name	Description			Local
	CAPACITOR						
	C1426	QFLC2AK-563MZ	M CAP.	0.056 µF	100V	K	*
	C1428	QFV71HJ-474MZ	TF CAP.	0.47 µF	50V	J	*
	C1429	QFV71HJ-224MZ	TF CAP.	0.22 µF	50V	J	*
	C1503	NCB21HK-103AY	CHIP CAP.	0.01 µF	50V	K	*
	C1523	QETC2CM-105Z	E CAP.	1 µF	160V	M	*
⚠	C1531	QFZ0117-3501S	MPP CAP.	3500 pF	1.4kVH	±2.5%	*
⚠	C1532	QFZ0117-1202S	MPP CAP.	0.012 µF	1.4kVH	±2.5%	*
⚠	C1533	QFP32GJ-223M	PP CAP.	0.022 µF	400V	J	*
	C1534	QEHC2EM-225MZ	E CAP.	2.2 µF	250V	M	*
⚠	C1535	QFZ0119-564S	MPP CAP.	0.56 µF	200V	±3%	*
	C1538	QEZ0203-107R	E CAP.	100 µF	160V		
	C1541	QETB2EM-336	E CAP.	33 µF	250V	M	*
	C1542	QETB1VM-108	E CAP.	1000 µF	35V	M	*
	C1544	QETC1VM-107Z	E CAP.	100 µF	35V	M	*
	C1545	QFLC2AJ-393MZ	M CAP.	0.039 µF	100V	J	*
	C1546	QFV71HJ-473MZ	TF CAP.	0.047 µF	50V	J	*
	C1573	QFLC1HK-683MZ	M CAP.	0.068 µF	50V	K	*
	C1574	QETC0JM-477Z	E CAP.	470 µF	6.3V	M	*
	C1575	QFLC1HK-683MZ	M CAP.	0.068 µF	50V	K	*
	C1577	QETC1VM-476Z	E CAP.	47 µF	35V	M	*
	C1578-79	QEM61HK-475MZ	E CAP.	4.7 µF	50V	K	
	C1701-02	NCB21HK-103AY	CHIP CAP.	0.01 µF	50V	K	*
	C1704	NCB21HK-103AY	CHIP CAP.	0.01 µF	50V	K	*
	C1705	NCT03CH-181AY	CHIP CAP.	180 pF	1600V	H	*
	C1709	NCT03CH-221AY	CHIP CAP.	220 pF	1600V	H	*
	C1710-11	NCT03CH-390AY	CHIP CAP.	39 pF	1600V	H	*
	C1712	NCT03CH-270AY	CHIP CAP.	27 pF	1600V	H	*
	C1713	NCT03CH-150AY	CHIP CAP.	15 pF	1600V	H	*
	C1714	NCB21HK-103AY	CHIP CAP.	0.01 µF	50V	K	*
	C1716	NCB21HK-103AY	CHIP CAP.	0.01 µF	50V	K	*
	C1717-18	NCT03CH-330AY	CHIP CAP.	33 pF	1600V	H	*
	C1720-21	NCB21HK-103AY	CHIP CAP.	0.01 µF	50V	K	*
	C1741	QFN31HJ-102ZJ1	M CAP.	1000 pF	50V	J	*
	C1744	NCT03CH-681AY	CHIP CAP.	680 pF	1600V	H	*
	C1772	NCB21HK-103AY	CHIP CAP.	0.01 µF	50V	K	*
⚠	C1901	QFZ9040-104N	MF CAP.	0.1 µF	AC250V	M	*
⚠	C1902	QFZ9040-473N	MF CAP.	0.047 µF	AC250V	M	*
⚠	C1903	QFZ9040-104N	MF CAP.	0.1 µF	AC250V	M	*
⚠	C1904	QCZ9052-102A	C CAP.	1000 pF	AC125V		*
⚠	C1906	QCZ9033-102A	C CAP.	1000 pF	AC250V	K	*
⚠	C1907	QCZ9033-102A	C CAP.	1000 pF	AC250V	K	*
⚠	C1908	QCZ9033-102A	C CAP.	1000 pF	AC250V	K	*
⚠	C1910	QEZ0169-477	E CAP.	470 µF	200V	M	*
	C1911	QCZ0116-152AZ	C CAP.	1500 pF	1000V	K	*
	C1917	QETC2AM-106Z	E CAP.	10 µF	100V	M	*
	C1918	NCB21HK-102AY	CHIP CAP.	1000 pF	50V	K	*
	C1921-22	QCZ0132-152AZ	C CAP.	1500 pF	500V	K	*
	C1924	QEZ0203-107R	E CAP.	100 µF	160V		
	C1929	QETC2CM-106Z	E CAP.	10 µF	160V	M	*
	C1938	NCT03CH-471AY	CHIP CAP.	470 pF	1600V	H	*
⚠	C1999	QCZ9052-222A	C CAP.	2200 pF	AC125V		*
	TRANSFORMER						
	T1131	CELT001-209J3	C.WAVE TRANSF.				*
	T1161	CELT003-109J3	S.I.F.TRANSF.				*
	T1521	CE42034-002	H.DRIVE TRANSF.				*
⚠	T1522	CJ28212-00AJ1	H.V.TRANSF.				*
⚠	T1901	CETS063-001J8	S M T				*
	COIL						
	L1001	CELP059-101Z	PEAKING COIL	100 µH			*
	L1102	CELP041-R22	PEAKING COIL	0.22 µH			*
	L1103	CELP041-R68	PEAKING COIL	0.68 µH			*
	L1104	CELP059-680Z	PEAKING COIL	68 µH			*

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⚠	Symbol No.	Part No.	Part Name	Description	Local
	C O I L				
	L1131	CELP059-220Z	PEAKING COIL	22 µH	*
	L1161	CELP059-680Z	PEAKING COIL	68 µH	*
	L1162	CELP059-220Z	PEAKING COIL	22 µH	*
	L1201	CELP059-270Z	PEAKING COIL	27 µH	*
⚠	L1531	CE41663-00B	LINEARITY COIL		*
	L1532	CELC052-821	CHOKE COIL		*
⚠	L1591	CELC901-046J6	HEATER CHOKE		*
	L1701	CELP059-5R6Z	PEAKING COIL	5.6 µH	*
	L1702	CELP058-100Z	PEAKING COIL	10 µH	*
	L1707	CELP059-5R6Z	PEAKING COIL	5.6 µH	*
	L1771	CELP059-5R6Z	PEAKING COIL	5.6 µH	*
	L1921	CELC058-820Z	CHOKE COIL		*
	L1922	CELC058-220Z	CHOKE COIL		*
	D I O D E				
	D1001	MTZJ36(A)-T2	ZENER DIODE		*
	D1221	MTZJ5.1(B)-T2	ZENER DIODE		*
	D1231-34	1SS133-T2	SI.DIODE		*
	D1421	1N4003-T2	SI.DIODE		*
	D1422	MTZJ75-T2	ZENER DIODE		*
	D1423	MTZJ36(A)-T2	ZENER DIODE		*
	D1511	MTZJ3.3(A)-T2	ZENER DIODE		*
⚠	D1531	RH3G-C1	SI.DIODE		
⚠	D1532	RU3AM-LFC4	SI.DIODE		
	D1533	RGP10J(C1)-T3	SI.DIODE		*
	D1541	RH1S-T3	SI.DIODE		
	D1542	RGP10J(C1)-T3	SI.DIODE		*
	D1544	1SS81-T2	SI.DIODE		*
	D1546	1SR124-400A-T2	SI.DIODE		*
	D1549	MTZJ9.1(B)-T2	ZENER DIODE		*
⚠	D1551	MTZJ7.5S-T2	ZENER DIODE		*
	D1560	1SS133-T2	SI.DIODE		*
	D1601-03	1SS133-T2	SI.DIODE		*
	D1703-04	1SS133-T2	SI.DIODE		*
	D1741-42	1SS133-T2	SI.DIODE		*
	D1771-73	1SS133-T2	SI.DIODE		*
⚠	D1901	D3SBA60-C1	BRIDGE DIODE		*
⚠	D1902	RGP10J(C1)-T3	SI.DIODE		*
	D1904	RMPG06D-T2	SI.DIODE		
	D1905	1SR124-400A-T2	SI.DIODE		*
	D1907	1SR124-400A-T2	SI.DIODE		*
	D1909	MTZJ15(A)-T2	ZENER DIODE		*
	D1911	1SS133-T2	SI.DIODE		*
	D1921	RU30A-C1	SI.DIODE		
	D1922	RU3YX-LFC4	SI.DIODE		
	D1923	EL1Z-LFF6	SI.DIODE		
	D1924	1SR35-100A-T2	SI.DIODE		*
	D1926-28	1SS133-T2	SI.DIODE		*
	D1931	1SS133-T2	SI.DIODE		*
	D1933	1SS133-T2	SI.DIODE		*
	D1934	RGP10J(C1)-T3	SI.DIODE		*
	T R A N S I S T O R				
	Q1101	2SC5083(L-P)-T	SI.TRANSISTOR		*
	Q1131-32	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1161	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1201-03	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1204-05	2SA1037K(QR)-X	SI.TRANSISTOR		*
	Q1231-32	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1521	2SC4212-C1	SI.TRANSISTOR		
⚠	Q1531	2SD2539-LB	SI.TRANSISTOR	H.OUT	*
	Q1541	2SA933S(QR)-T	SI.TRANSISTOR		*
⚠	Q1542	2SC2785(JH)-T	SI.TRANSISTOR		*
	Q1551	2SC2412K(QR)-X	SI.TRANSISTOR		*

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⚠	Symbol No.	Part No.	Part Name	Description	Local
	T R A N S I S T O R				
	Q1552	2SA1037K(QR)-X	SI.TRANSISTOR		*
	Q1553	2SD1408(OY)-LB	SI.TRANSISTOR		
	Q1601	DTC124EKA-X	DIGI.TRANSISTOR		*
	Q1602	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1603	DTC124EKA-X	DIGI.TRANSISTOR		*
	Q1604	2SA1037K(QR)-X	SI.TRANSISTOR		*
	Q1701	DTC124EKA-X	DIGI.TRANSISTOR		*
	Q1741	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1742	DTC124EKA-X	DIGI.TRANSISTOR		*
	Q1743	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1921	2SC2412K(QR)-X	SI.TRANSISTOR		*
⚠	Q1922	2SD1383K-X	SI.TRANSISTOR		
	Q1923	2SA1020(Y)-T	SI.TRANSISTOR		
	Q1924	2SC2412K(QR)-X	SI.TRANSISTOR		*
	Q1925-28	DTC124EKA-X	DIGI.TRANSISTOR		*
	I C				
	IC1001	KIA78L05BP-Y	I.C.(MONO-ANA)		*
	IC1101	KIA7809PI	I.C.(MONO-ANA)		*
	IC1201	TA1242N	I.C.(MONO-ANA)		
⚠	IC1421	LA7832	I C		
⚠	IC1601	LA4485	I.C.(MONO-ANA)		
	IC1701	MN1874876J7R3	I C		
	IC1702	AT24C04-27750U	I.C.(EP-ROM)	(SERVICE)	
	IC1703	MN1280-Q	I.C.(DIGI-MOS)		*
	IC1771	KIA78L05BP-Y	I.C.(MONO-ANA)		*
⚠	IC1901	STR-S5708	I.C.(HYBRID)		
	O T H E R S				
		CM47653-001	PCB HOLDER		
	CF1001	FTP47.25MF	CERAMIC FILTER		*
	CF1131	CE41505-001	CERAMIC FILTER		
	CF1161	SFSH4.5MCB	CERAMIC FILTER		*
	CF1501	CSB503F30-T2	CER.RESONATOR		*
	CF1701	FCR12.0M2S	CER.RESONATOR		*
⚠	F1901	QMF0007-5R0J1	FUSE	5.0A	*
	K1421	CE42050-001Z	CORE		
	K1902	CE41433-001Z	BEADS CORE		
	K1921	CE41433-001Z	BEADS CORE		
	K1922	CE42050-001Z	CORE		
⚠	LF1901	CELF001-001J1	LINE FILTER		*
⚠	LF1902	CE42335-001J1	LINE FILTER		*
⚠	PC1901	TLP621(GB)	I.C.(PH.COUPLER)		*
⚠	PC1902	TLP621(GB)	I.C.(PH.COUPLER)		*
⚠	RY1901	CESK028-001	RELAY		*
⚠	RY1921	CESK028-001	RELAY		*
	S1421	QSL6A13-C01	LEVER SWITCH	V.CENTER SW	*
	SF1101	CE42604-201	SAW FILTER		
	TH1501	CEKP004-002	P.THERMISTOR		
⚠	TH1901	CEKP007-001	P.THERMISTOR		*
⚠	TU1001	CEEM270-A01	TUNER		*
⚠	VA1901	ERZV10V361CS	VARISTOR		*
	X1301	CE41651-001Z	CRYSTAL		*

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CRT SOCKET PW BOARD ASS'Y (SGK-3014A-M2)

⚠ Symbol No.	Part No.	Part Name	Description			Local
	RESISTOR					
R3360-62	QRZ0111-152	C R	1.5kΩ	1/2W		*
R3363-65	QRG029J-103	OM R	10kΩ	2W	J	*
	CAPACITOR					
C3354-55	NCS21HJ-331AY	CER.CAP.-M	330pF	50V	J	*
C3356	NCS21HJ-391AY	CER.CAP.-M	330pF	50V	J	*
⚠ C3382	QCZ0121-102A	C CAP.	1000pF	3kV	Z	*
	COIL					
L3381	CELP055-101Z	PEAKING COIL	100μH			*
	TRANSISTOR					
Q3351-53	2SC4544-C1	SI.TRANSISTOR				*
	OTHERS					
⚠ SK3351	CE42535-001J1	C.R.T.SOCKET				*

FRONT CONTROL PW BOARD ASS'Y (SGK-4011A-M2)

⚠ Symbol No.	Part No.	Part Name	Description	Local
	DIODE			
D4701	GL2PR6	L.E.D.(RED)		*
	TRANSISTOR			
Q4701-02	DTA124EKA-X	DIGI.TRANSISTOR		*
	IC			
IC4841	HC-337MN	IFR DETECT UNIT		*
	OTHERS			
	CM46978-A01-H	L.E.D.HOLDER		*
S4702	QSP1A11-C19Z	PUSH SWITCH	MENU	*
S4703	QSP1A11-C19Z	PUSH SWITCH	CH -	*
S4704	QSP1A11-C19Z	PUSH SWITCH	CH +	*
S4705	QSP1A11-C19Z	PUSH SWITCH	VOL -	*
S4706	QSP1A11-C19Z	PUSH SWITCH	VOL +	*
S4707	QSP1A11-C19Z	PUSH SWITCH	POWER	*

AV SELECTOR PW BOARD ASS'Y (SGK-8016A-M2)

⚠ Symbol No.	Part No.	Part Name	Description			Local
	VARIABLE RESISTOR					
R8123	QVPA603-473AZ	V R(NOISE VR)	47kΩ	B		
	RESISTOR					
R8005	QRD149J-5R6S	C R	5.6 Ω	1/4W	J	*
R8109	NRVA02D-2200NY	CHIP MF R	220 Ω	1/4W	F	
R8607	NRVA02D-1502NY	MF R	15kΩ	1/10W	F	*
R8609	NRVA02D-1501NY	MF R	1.5kΩ	1/10W	F	*
	CAPACITOR					
C8005	NCB21HK-103AY	CHIP CAP.	0.01μF	50V	K	*

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⚠ Symbol No.	Part No.	Part Name	Description			Local
CAPACITOR						
C8101-03	NCB21HK-103AY	CHIP CAP.	0.01 µF	50V	K	*
C8104	NCB21HK-222AY	CHIP CAP.	2200 p F	50V	K	*
C8106	NCB21HK-222AY	CHIP CAP.	2200 p F	50V	K	*
C8107	NCB21HK-103AY	CHIP CAP.	0.01 µF	50V	K	*
C8108	NCS21HJ-101AY	CHIP CAP.	100 p F	50V	J	*
C8109-10	QFV71HJ-224MZ	TF CAP.	0.22 µF	50V	J	*
C8112	NCB21HK-222AY	CHIP CAP.	2200 p F	50V	K	*
C8115	NCB21HK-103AY	CHIP CAP.	0.01 µF	50V	K	*
C8118	QFV71HJ-474MZ	TF CAP.	0.47 µF	50V	J	*
C8161	QFLC1HK-104MZ	M CAP.	0.1 µF	50V	K	*
C8205	NCT03CH-330AY	CHIP CAP.	33 p F	1600V	H	*
C8302	QFLC1HK-103MZ	M CAP.	0.01 µF	50V	K	*
C8303	NCT03CH-680AY	CHIP CAP.	68 p F	1600V	H	*
C8304	NCT03CH-271AY	CHIP CAP.	270 p F	1600V	H	*
C8305	NCB21HK-103AY	CHIP CAP.	0.01 µF	50V	K	*
C8316	NCB21HK-103AY	CHIP CAP.	0.01 µF	50V	K	*
C8317	NCT03CH-680AY	CHIP CAP.	68 p F	1600V	H	*
C8602	QFLC1HK-103MZ	M CAP.	0.01 µF	50V	K	*
C8604	QFV71HJ-104MZ	TF CAP.	0.1 µF	50V	J	*
C8605	QEN61HM-475Z	BP E CAP.	4.7 µF	50V	M	*
C8606	QEN61HM-105Z	BP E CAP.	1 µF	50V	M	*
C8608	QFLC1HK-473MZ	M CAP.	0.047 µF	50V	K	*
C8610-11	QFV71HJ-104MZ	TF CAP.	0.1 µF	50V	J	*
C8613	QEE61CK-335BZ	TAN.CAP.	3.3 µF	16V	K	
C8614	QEE61CK-106BZ	TAN.CAP.	10 µF	16V	K	
C8619	QFLC1HK-273MZ	M CAP.	0.027 µF	50V	K	*
C8621	QFN31HK-222ZJ1	M CAP.	2200 p F	50V	K	*
C8622	QFV71HJ-104MZ	TF CAP.	0.1 µF	50V	J	*
C8624	QFN31HK-222ZJ1	M CAP.	2200 p F	50V	K	*
C8625	QFV71HJ-104MZ	TF CAP.	0.1 µF	50V	J	*
C8661-62	QEN61HM-105Z	BP E CAP.	1 µF	50V	M	*
C8829	QEN61HM-106Z	BP E CAP.	10 µF	50V	M	*
C8832	QFLC1HK-103MZ	M CAP.	0.01 µF	50V	K	*
C8842	QFLC1HK-103MZ	M CAP.	0.01 µF	50V	K	*
C8846	QFLC1HK-103MZ	M CAP.	0.01 µF	50V	K	*
COIL						
L8003	CELP059-150Z	PEAKING COIL	15 µH			*
L8101	CELP041-R22	PEAKING COIL	0.22 µH			*
L8103	CE42452-003	COIL				*
L8104	CELP055-220Z	PEAKING COIL	22 µH			*
L8106	CELP059-5R6Z	PEAKING COIL	5.6 µH			*
L8202	CELP059-220Z	PEAKING COIL	22 µH			*
L8301	CELP059-150Z	PEAKING COIL	15 µH			*
L8801-02	CELP059-5R6Z	PEAKING COIL	5.6 µH			*
DIODE						
D8311-13	1SS133-T2	SI.DIODE				*
D8693-94	MTZJ9.1(C)-T2	ZENER DIODE				*
D8701-03	MTZJ5.6(B)-T2	ZENER DIODE				*
D8811-22	MTZJ9.1(C)-T2	ZENER DIODE				*
TRANSISTOR						
Q8101	2SC5083(L-P)-T	SI.TRANSISTOR				*
Q8102	2SA1037K(QR)-X	SI.TRANSISTOR				*
Q8202	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q8203	2SA1037K(QR)-X	SI.TRANSISTOR				*
Q8204	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q8301-03	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q8305	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q8671-72	DTC124EKA-X	DIGI.TRANSISTOR				*
Q8683-86	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q8801-02	2SC2412K(QR)-X	SI.TRANSISTOR				*
Q8803	2SA1037K(QR)-X	SI.TRANSISTOR				*
Q8804-07	2SC2412K(QR)-X	SI.TRANSISTOR				*

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⚠ Symbol No.	Part No.	Part Name	Description	Local
TRANSISTOR				
Q8851-53	DTC124EKA-X	DIGI.TRANSISTOR		*
IC				
IC8001	KIA7805PI	I.C.(MONO-ANA)		*
IC8101	LA7583	I.C.(MONO-ANA)		
IC8601	UPC1851CU-02	I.C.(MONO-ANA)		
IC8661	BA15218N	I.C.(MONO-ANA)		*
IC8671	TC4066BP	I.C.(DIGI-MOS)		*
IC8801	BA7644AN	OP AMP IC		
IC8802	BA7644AN	I.C.(MONO-ANA)		
IC8803	TC4066BP	I.C.(DIGI-MOS)		*
OTHERS				
CF8101	FTP47.25MF	CERAMIC FILTER		*
CF8102	FCR5.71M2SF3	CER.RESONATOR		*
CF8103	CE41505-001	CERAMIC FILTER		
CM8201	CE42599-001	COMB FILTER MOD		*
CN8004	CHA401N-25P-J	HQF CONNECTOR		*
DL8201	CE42464-001	BPF&DL MODULE		*
J8801	QMCC004-C01	MINI DIN JACK		
SF8101	CE42589-201	SAW FILTER		
⚠ TU8001	CEEM270-A01	TUNER		*

AV JACK PW BOARD ASS'Y (SGK0J002A-M2)

⚠ Symbol No.	Part No.	Part Name	Description	Local
OTHERS				
CN0004	CHA401N-25R-J	HQF CONNECTOR		*
J0802-03	CEMN073-001	PIN JACK		*
J0804	CEMN090-003	PIN JACK		*
J0805-06	AX49607-020	MINI JACK		*

PIP PW BOARD ASS'Y (SGK0P001A-M2)

⚠ Symbol No.	Part No.	Part Name	Description	Local
RESISTOR				
R0161	QRG019J-390S	OM R	39 Ω 1W J	*
R0401	QRD149J-150S	C R	15 Ω 1/4W J	*
CAPACITOR				
C0101	QEN61CM-106Z	BP E CAP.	10 μF 16V M	*
C0102	NCT03CH-150AY	CHIP CAP.	15 pF 1600V H	*
C0103	NCT03CH-101AY	CHIP CAP.	100 pF 1600V H	*
C0104	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	*
C0110	NCT03CH-561AY	CHIP CAP.	560 pF 1600V H	*
C0122	NCB21HK-103AY	CHIP CAP.	0.01 μF 50V K	*
C0123	NCB21HK-152AY	CHIP CAP.	1500 pF 50V K	*
C0125	NCF21HZ-103AY	CHIP C CAP.	0.01 μF 50V Z	*
C0126	QFV71HJ-104MZ	TF CAP.	0.1 μF 50V J	*
C0127	NCT03CH-220AY	CHIP CAP.	22 pF 1600V H	*
C0142	NCT03CH-150AY	CHIP CAP.	15 pF 1600V H	*

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⚠ Symbol No.	Part No.	Part Name	Description	Local
CAPACITOR				
C0143	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V Z	*
C0145	NCB21HK-103AY	CHIP CAP.	0.01μF 50V K	*
C0149	NCT03CH-101AY	CHIP CAP.	100pF 1600V H	*
C0150	NCT03CH-470AY	CHIP CAP.	47pF 1600V H	*
C0162	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V Z	*
C0164	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V Z	*
C0166	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V Z	*
C0171-89	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V Z	*
C0202	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V Z	*
C0204-05	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V Z	*
C0209-11	QEN61HM-475Z	BP E CAP.	4.7μF 50V M	*
C0213	NCB21HK-103AY	CHIP CAP.	0.01μF 50V K	*
C0215	NCB21HK-103AY	CHIP CAP.	0.01μF 50V K	*
C0216	NCT03CH-102AY	CHIP CAP.	1000pF 1600V H	*
C0222-25	NCT03CH-470AY	CHIP CAP.	47pF 1600V H	*
C0227	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V Z	*
C0241-51	NCT03CH-101AY	CHIP CAP.	100pF 1600V H	*
C0252-60	NCT03CH-471AY	CHIP CAP.	470pF 1600V H	*
C0261-62	NCT03CH-681AY	CHIP CAP.	680pF 1600V H	*
C0263	NCT03CH-101AY	CHIP CAP.	100pF 1600V H	*
C0270-78	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V Z	*
C0304	QEN61HM-475Z	BP E CAP.	4.7μF 50V M	*
C0310	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V Z	*
C0331	NCF21HZ-103AY	CHIP C CAP.	0.01μF 50V Z	*
C0402	NCT03CH-820AY	CHIP CAP.	82pF 1600V H	*
COIL				
L0101	CELP059-100Z	PEAKING COIL	10μH	*
L0103	CELP059-150Z	PEAKING COIL	15μH	*
L0106	CELP059-820Z	PEAKING COIL	82μH	*
L0107	CELP059-150Z	PEAKING COIL	15μH	*
DIODE				
D0201	1SS133-T2	SI.DIODE		*
D0402-03	1SS133-T2	SI.DIODE		*
TRANSISTOR				
Q0101-05	2SC2412K(QR)-X	SI.TRANSISTOR		*
Q0106	2SA1037K(QR)-X	SI.TRANSISTOR		*
Q0201	2SA1037K(QR)-X	SI.TRANSISTOR		*
Q0301-09	2SC2412K(QR)-X	SI.TRANSISTOR		*
Q0401	2SC2412K(QR)-X	SI.TRANSISTOR		*
Q0402	2SA1037K(QR)-X	SI.TRANSISTOR		*
Q0403-09	2SC2412K(QR)-X	SI.TRANSISTOR		*
IC				
IC0101	LA7403	I C		
IC0102	KIA7809PI	I.C.(MONO-ANA)		*
IC0103	KIA7805PI	I.C.(MONO-ANA)		*
IC0201	LC74411	I C		
IC0202	MN1381-Q-Y	I.C.(MONO-ANA)		
IC0301	BA7655AF-X	I.C.(MONO-ANA)		*
IC0401	AN5860	I.C.(MONO-ANA)		
OTHERS				
X0101	CSB503F30-T2	CER.RESONATOR		*
X0102	CE41651-001Z	CRYSTAL		*

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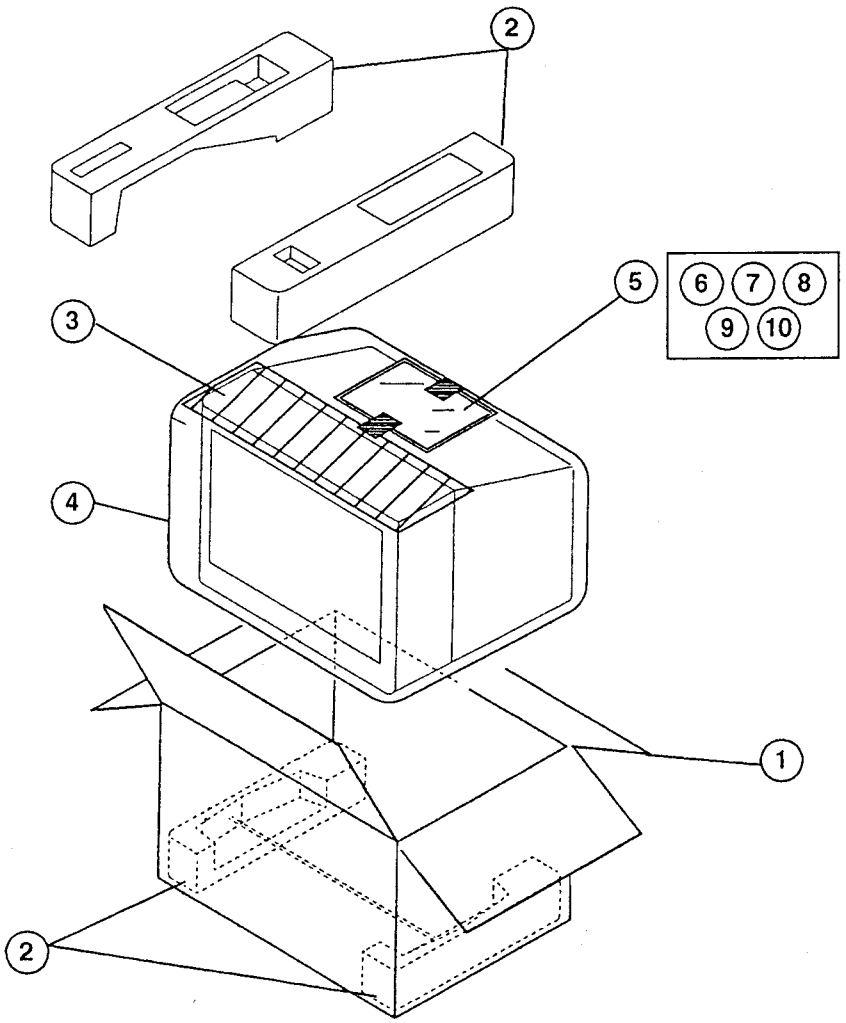
REMOTE CONTROL UNIT PARTS LIST (RM-C732-1A)

⚠ Ref.No.	Part No.	Part Name	Description	Local
	103RRC-049-01AR	BATTERY COVER		*

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
[America model]					
	1	CP11499-003-A	PACKING CASE		*
	2	CP11550-00B-A	CUSHION ASSY	4pcs in 1set	*
	3	CP30055-002-A	TOP COVER		*
	4	CP30056-004-A	POLY BAG		*
	5	QPGA025-03505A	POLY BAG		*
	6	**RM-C742-1C**	**REMOCON UNIT**	**AV-32750**	*
	6	**RM-C732-1A**	**REMOCON UNIT**	**AV-32770**	*
⚠	**7**	**CQ40198-001-A**	**INST BOOK**	**AV-32750** (ENGLISH)	*
⚠	**7**	**CQ40282-001-A**	**INST BOOK**	**AV-32770** (ENGLISH)	*
	8	BT-51006-1Q	REGI.CARD		*
[Canada model]					
	1	CP11499-003-A	PACKING CASE		*
	2	CP11550-00B-A	CUSHION ASSY	4pcs in 1set	*
	3	CP30055-002-A	TOP COVER		*
	4	CP30056-004-A	POLY BAG		*
	5	QPGA025-03505A	POLY BAG		*
	6	RM-C742-1C	REMOCON UNIT		*
⚠	7	CQ40198-001-A	INST BOOK	(ENGLISH)	*
⚠	7	CQ40199-001-A	INST.BOOK	(FRENCH)	*
	9	BT-52002-1Q	WARRANTY CARD		*
	10	BT-20071B-Q	SVC CENTER LIST		*